

BEFORE THE
ILLINOIS COMMERCE COMMISSION

IN THE MATTER OF:)
)
COMMONWEALTH EDISON COMPANY)
)
VERIFIED PETITION TO DETERMINE) No. 07-0491
THE APPLICABILITY OF SECTION)
16-125(e) LIABILITY TO EVENTS)
CAUSED BY THE AUGUST 23, 2007)
STORM FRONT.)

Chicago, Illinois
August 13th, 2008

Met, pursuant to notice, at 9:30 a.m.

BEFORE :

GLENNON P. DOLAN, Administrative Law Judge

1 APPEARANCES:

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SULLIVAN REPORTING COMPANY, by
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I N D E X

<u>Witnesses:</u>	<u>Direct</u>	<u>Cross</u>	<u>Re-direct</u>	<u>Re-cross</u>	<u>By Examiner</u>
Cress	73	76,90	93,94	94	
Krishnasamy	73	76,90	93,94	94	
Lanzalotta	95	97,125	131		136,137
Linkenback	138	141			
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E X H I B I T S

<u>Number</u>	<u>For Identification</u>	<u>In Evidence</u>
ComEd Exhibits 3.0 & 3.01		76
AG Cross-Exhibits 1 & 2		95
AG Exhibit Nos. 1.0 and 1.1 - 1.7		97
ICC Staff Exhibit Nos. 1.0 & 2.0		140
ComEd Staff Exhibits 1.0, 1.01, 1.02 & 2.0		153
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1 JUDGE DOLAN: By the direction and the
2 authority of the Illinois Commerce Commission I call
3 Docket No. 07-0491, Commonwealth Edison Company, a
4 Petition to Determine the Applicability of Section
5 16-125(e), Liability to Events Caused by the August
6 23rd, 2007 storm front.

7 Would the parties please identify
8 themselves for the record.

9 MR. RIPPIE: On behalf of the petitioner,
10 Commonwealth Edison Company, Glenn -- two n's --
11 Rippie, R-i-p-p-i-e and Carla Scarsella, Foley &
12 Lardner, LLP, 321 North Clark Street, Chicago,
13 Illinois 60610. Also appearing at times during the
14 day will be Darryl Bradford and Doug Graham from
15 Commonwealth Edison Company.

16 MR. GRAHAM: 440 South LaSalle 60603 -- 60605.

17 JUDGE DOLAN: All right.

18 MR. LANNON: Appearing on behalf of the Staff
19 of the Illinois Commerce Commission, Mike Lannon and
20 Carmen Fosco, 160 North LaSalle Street, Suite C-800,
21 Chicago, Illinois, 60601.

22 MR. MOSSOS: On behalf of the People of the

1 State of Illinois, Elias Mossos, M-o-s-s-o-s, 100
2 West Randolph Street, 11th Floor, Chicago, Illinois
3 60601.

4 MR. NEILAN: On behalf of the Village of
5 Deerfield, Paul Neilan -- the Last name is
6 N-e-i-l-a-n -- of Giordano & Neilan, G-i-o-r-d-a-n-o
7 & Neilan, Limited, 360 North Michigan Avenue, Suite
8 1005, Chicago, Illinois 60601. And also Ms.
9 Catherine Gallagher, G-a-l-l-a-g-h-e-r. She's a
10 summer clerk with us who is actually a lawyer in
11 Ireland and will be observing the proceedings.

12 JUDGE DOLAN: Okay. I think she was with us
13 the last time we were here banging heads.

14 So welcome back.

15 Let the record reflect there are no
16 other appearances for the record and we're ready with
17 our first -- we have panel witnesses Steven Cress and
18 Settiana Krishnasamy.

19 All right.

20 MR. NEILAN: Just for the record, the Village
21 of Deerfield will not be having cross for any of the
22 witnesses.

1 JUDGE DOLAN: Okay. Well, that cuts out a lot
2 of time right there.

3 MR. RIPPIE: Your Honor, would you like to
4 swear all of the witnesses in -- because I believe
5 they're all in the room -- at once for efficiency?

6 JUDGE DOLAN: That's fine. I can do it that
7 way. Okay.

8 (Witnesses sworn.)

9 JUDGE DOLAN: All right. We'll present our
10 first witnesses here.

11 MR. RIPPIE: The Company's first witnesses are
12 the panel of Mr. Steven Crest and Dr. Settiana -- who
13 goes by Sammy -- Krishnasamy.

14 STEPHEN LEONARD CRESS and
15 DR. SETTIANA KRISHNASAMY,
16 called as witnesses herein, having been first duly
17 sworn, were examined and testified as follows:

18 DIRECT EXAMINATION

19 BY

20 MR. RIPPIE:

21 Q Would you please state and spell your full
22 legal names for the court reporter.

1 MR. SETTIANA KRISHNASAMY: Settiana G.
2 KRISHNASAMY, S-e-t-t-i-a-n-a, G.,
3 K-r-i-s-h-n-a-s-a-m-y.
4 MR. STEPHEN CRESS: Stephen Leonard Cress,
5 S-t-e-p-h-e-n, C-r-e-s-s.
6 MR. RIPPIE: Gentlemen, have you prepared --
7 caused to be prepared under your direction and
8 control testimony to be submitted to the Illinois
9 Commerce Commission in this proceeding?
10 MR. SETTIANA KRISHNASAMY: Yes, we have.
11 MR. STEPHEN CRESS: Yes.
12 BY MR. RIPPIE:
13 Q Is a copy of that testimony before you this
14 morning?
15 MR. STEPHEN CRESS: Yes.
16 MR. SETTIANA KRISHNASAMY: Yes.
17 BY MR. RIPPIE:
18 Q Is that testimony the document that is
19 designated as Commonwealth Edison Company,
20 Exhibit 3.0 together with its attachment designated
21 as Commonwealth Edison Company, Exhibit 3.01, the
22 attachment consisting of a total of 35 pages?

1 MR. STEPHEN CRESS: That's correct.

2 BY MR. RIPPIE:

3 Q Do you have any additions or corrections

4 that you wish to make to Commonwealth Edison 3.0 or

5 3.01?

6 MR. SETTIANA KRISHNASAMY: No.

7 MR. STEPHEN CRESS: No.

8 BY MR. RIPPIE:

9 Q If I were to ask you the same questions as

10 appear in Commonwealth Edison Exhibit 3 today, would

11 you give the same answers as appear in that exhibit?

12 SETTIANA KRISHNASAMY: Yes.

13 MR. STEPHEN CRESS: Yes, I would.

14 MR. RIPPIE: That's all the direct examination

15 I have for the panel. And I will offer into evidence

16 ComEd Exhibits 3.0 and 3.01, subject of course to

17 cross.

18 JUDGE DOLAN: Any objections?

19 (No response.)

20 JUDGE DOLAN: ComEd Exhibit 3.0 and 3.01 will

21 be admitted into the record.

22

1 (Whereupon, ComEd Exhibit
2 Nos. 3.0 and 3.01 were admitted
3 into evidence.)
4 JUDGE DOLAN: And Mr. Mossos, do you want to go
5 first?
6 MR. MOSSOS: On behalf of the Illinois Attorney
7 General's office, I only have a few questions here.
8 CROSS-EXAMINATION
9 BY
10 MR. MOSSOS:
11 Q Is your testimony limited to addressing the
12 issue of crossarms only?
13 MR. SETTIANA KRISHNASAMY: No. We looked at
14 also the poles.
15 BY MR. MOSSOS:
16 Q But the only interruptions you address were
17 those then that were caused by the failure of
18 crossarms and poles only?
19 SETTIANA KRISHNASAMY: Yes, it's limited to the
20 crossarms and poles.
21 BY MR. MOSSOS:
22 Q On Page 1 of your ComEd Exhibit 3.01, which

1 I believe is the analysis, it states that there
2 were -- Page 1 of Exhibit 3.01 it states in that
3 first paragraph that there were about 79
4 interruptions that were caused by crossarms.

5 Do you know how many customers were
6 affected by these 79 interruptions?

7 MR. STEPHEN CRESS: The paragraph indicates 79
8 interruptions associated with crossarms as opposed to
9 caused by crossarms.

10 BY MR. MOSSOS:

11 Q Correct.

12 MR. STEPHEN CRESS: No, I don't know at this
13 moment the number of customers associated with those
14 outages.

15 BY MR. MOSSOS:

16 Q Do you recall if that number would appear
17 anywhere in your testimony?

18 MR. STEPHEN CRESS: Our direct testimony, no.
19 I don't believe it's there in our report. Although,
20 it is certainly in our other evidence.

21 BY MR. MOSSOS:

22 Q And have you read the testimony of Illinois

1 Attorney General witness Pete J. Lanzalotta
2 (phonetic)?

3 MR. STEPHEN CRESS: Yes, we have.

4 MR. SETTIANA KRISHNASAMY: Yes we have.

5 BY MR. MOSSOS:

6 Q And have you also examined the exhibits
7 attached to his testimony?

8 MR. STEPHEN CRESS: Yes.

9 BY MR. MOSSOS:

10 Q Have you read all of the data requests and
11 responses to the data requests that are involved in
12 this proceeding?

13 MR. SETTIANA KRISHNASAMY: The data was
14 recorded from our other testimony.

15 BY MR. MOSSOS:

16 Q Have you seen -- were those the only data
17 requests you saw, the ones directed to your
18 testimony; or have you also reviewed data requests
19 that were sent between other parties in this case,
20 other witnesses?

21 MR. STEPHEN CRESS: We have seen the data
22 requests indicated as 4.10 to 4.08, I believe.

1 BY MR. MOSSOS:

2 Q On Page 2 of your rebutted testimony you
3 state that the design life of poles and crossarms
4 exceed 50 years; is that correct -- I believe on Page
5 2?

6 MR. SETTIANA KRISHNASAMY: Page 2.

7 BY MR. MOSSOS:

8 Q Of the rebutted testimony?

9 MR. SETTIANA KRISHNASAMY: Yes. I'm looking at
10 it.

11 MR. STEPHEN CRESS: 3.0?

12 BY MR. MOSSOS:

13 Q Yes.

14 MR. SETTIANA KRISHNASAMY: What's the line
15 number -- okay. 42.

16 BY MR. MOSSOS:

17 Q Yes.

18 Is that correct?

19 MR. SETTIANA KRISHNASAMY: Mm-hmm.

20 BY MR. MOSSOS:

21 Q And referring your attention to ComEd
22 Exhibit 3.01, that would be your analysis on Page 9,

1 it states that there is no basis -- the very last
2 sentence says, There is no basis to conclude that
3 ComEd should replace all or most crossarms after 25
4 to 35 years or that ComEd's usable to crossarms cause
5 or lengthen interruptions during the storm; is that
6 correct? Page 9 of 35 of Exhibit 3.01, that's the
7 analysis, Page 9.

8 MR. SETTIANA KRISHNASAMY: Yes.

9 BY MR. MOSSOS:

10 Q I would like to show you -- have you seen
11 what has been filed as Attorney General Exhibit 1.4
12 that was attached to the testimony of Pete J.
13 Lanzalotta?

14 MR. STEPHEN CRESS: Labeled Section G of the
15 ComEd report?

16 BY MR. MOSSOS:

17 Q Correct, that would be it?

18 MR. STEPHEN CRESS: Yes, we have seen that.

19 MR. MOSSOS: I only have a few copies. Does
20 anybody need one?

21 MR. RIPPIE: 1.04; right?

22 MR. MOSSOS: Correct.

1 MR. LANNON: If you have an extra one, I could
2 use it.

3 BY MR. MOSSOS:

4 Q On Page G3 of this report, the third page,
5 does it say this is a detailed analysis of the age of
6 ComEd's system?

7 MR. SETTIANA KRISHNASAMY: In the beginning of
8 the Page 3?

9 MR. STEPHEN CRESS: The second paragraph.

10 BY MR. MOSSOS:

11 Q Do you see where it says that?

12 MR. SETTIANA KRISHNASAMY: Yes.

13 MR. STEPHEN CRESS: Yes.

14 BY MR. MOSSOS:

15 Q And doesn't this detailed analysis also
16 state that, Our distribution system crossarm show a
17 median age of 30 years, on G3 in the last paragraph,
18 second sentence -- I'm sorry I'm looking at -- I
19 apologize -- Page G5, the second sentence under
20 crossarms.

21 But your testimony is that crossarms
22 exceed -- their useful life exceeds 50 years; is that

1 correct?

2 MR. SETTIANA KRISHNASAMY: Yes, it is. They
3 are designed for 50 years, along with the pole.

4 BY MR. MOSSOS:

5 Q But your testimony is different from
6 ComEd's actual experience, is it not?

7 MR. SETTIANA KRISHNASAMY: No, that's the age
8 of the poles that are in service. It's not the age
9 of the pole that are damaged or repaired.

10 BY MR. MOSSOS:

11 Q Okay. So you state that the -- your
12 testimony is that the age of the crossarms that were
13 in need of replacement due to the storm system, the
14 average life those was 50 years?

15 MR. SETTIANA KRISHNASAMY: When we design a
16 pole line, we design with crossarms. So they are
17 designed for 50 years of fiscal life.

18 MR. STEPHEN CRESS: The document you're
19 referring to indicates the median age of poles -- of
20 crossarms that ComEd has in service. That does not
21 necessarily indicate the age at which crossarms -- or
22 the median age at which crossarms need to be

1 replaced. It's simply the age -- the median age of
2 crossarms in service at ComEd.

3 BY MR. MOSSOS:

4 Q Looking at Figure 6 on that Page G5, isn't
5 it true it shows there are no crossarms in service
6 past 50 years?

7 MR. SETTIANA KRISHNASAMY: No. If you see,
8 there are -- this particular part was done not for
9 the purpose of after 60 years -- or 50 years in
10 service. They would not come to do the -- this is
11 not used for the life of the crossarms. It's the age
12 at which crossarms are in service.

13 BY MR. MOSSOS:

14 Q And your testimony deals with the useful
15 life, not actual age?

16 MR. SETTIANA KRISHNASAMY: The useful life.
17 And also from experience during pole testing and
18 crossarms for the last 20 years, they have been in
19 service longer than 50 years in many cases.

20 BY MR. MOSSOS:

21 Q And you also state that wood poles last for
22 50 to 80 years in your testimony; is that correct?

1 MR. SETTIANA KRISHNASAMY: Yes.

2 BY MR. MOSSOS:

3 Q I would like to show you AG
4 Cross-Exhibit 1. Isn't it true that this shows that
5 ComEd's experience with wood poles or that the
6 average age of wood poles is between 32 and 38 years?

7 MR. SETTIANA KRISHNASAMY: I think what we're
8 talking about are two different things here. These
9 are the age of the poles that are in service. They
10 are not the poles that are being used to full of
11 life. They're not.

12 What we're talking about in our
13 testimony is that we have seen poles in service in up
14 to 8 years. So this is -- according to my
15 understanding, there are so many poles in service for
16 so many years; but that doesn't mean they are bad
17 ones.

18 BY MR. MOSSOS:

19 Q Your testimony is that these poles
20 reflected here might last up to 80 years?

21 MR. SETTIANA KRISHNASAMY: Some of them could,
22 yes.

1 BY MR. MOSSOS:

2 Q And do you know how often crossarms are
3 inspected?

4 MR. SETTIANA KRISHNASAMY: There are two types
5 of inspections: One is the line crew walks along the
6 lines. They have a set of crosswalks to follow.
7 They check all the components on the system. And
8 then every 10 years they test also the strength of
9 the pole and other things every 10 years. So based
10 on that, they'll decide whether the crossarms should
11 be there.

12 BY MR. MOSSOS:

13 Q The first type of inspection, do you know
14 how many years that occurs?

15 MR. SETTIANA KRISHNASAMY: Every 3, 4 years --
16 2, 4 years.

17 BY MR. MOSSOS:

18 Q But no longer than 4 years?

19 MR. SETTIANA KRISHNASAMY: From experience, no.

20 BY MR. MOSSOS:

21 Q And have you seen this document before?

22 MR. SETTIANA KRISHNASAMY: Yes.

1 BY MR. MOSSOS:

2 Q And if you could flip through it, there are
3 certain lines that are underlined. Isn't it true
4 that these are -- this reflects that some of the
5 poles were not inspected within 4 years prior of the
6 actual storm system?

7 MR. SETTIANA KRISHNASAMY: We don't have that
8 type of information.

9 BY MR. MOSSOS:

10 Q For instance, on Page 4, do you know when
11 the storm system occurred that is the subject of this
12 docket?

13 MR. SETTIANA KRISHNASAMY: August 23, 2007.

14 BY MR. MOSSOS:

15 Q When you look at the bottom of Page 4 where
16 it says Circuit C80, isn't it true that that was last
17 inspected May 2003 which would have been longer than
18 4 years prior to the storm?

19 MR. SETTIANA KRISHNASAMY: Just about 4 years.
20 You cannot really say exactly within 4 years, if
21 you're testing it. I don't think -- in my opinion, I
22 don't think that's fair -- that's an oversight.

1 THE REPORTER: I'm sorry. What was the last
2 part?

3 MR. SETTIANA KRISHNASAMY: That's an oversight
4 by ComEd.

5 BY MR. MOSSOS:

6 Q And, finally, if I could point your
7 attention, again, to ComEd Exhibit 3.01, Page 11 of
8 your report, who prepared this graph -- or the
9 picture that appears in middle of the page, Figure 5.

10 MR. SETTIANA KRISHNASAMY: Figure 5.

11 BY MR. MOSSOS:

12 Q Page 11.

13 MR. SETTIANA KRISHNASAMY: This was given to us
14 by ComEd, and we checked this -- cross-checked this
15 with the NOWA data from the database.

16 BY MR. MOSSOS:

17 Q And could you please tell me what does
18 "circuit patrol" mean.

19 MR. SETTIANA KRISHNASAMY: "Circuit patrol," it
20 means you -- the circuit -- you see whether there are
21 any poles and crossarms.

22

1 BY MR. MOSSOS:

2 Q And that's something that ComEd did, not
3 NOWA?

4 MR. SETTIANA KRISHNASAMY: No.

5 BY MR. MOSSOS:

6 Q Do you know what date this reflects?

7 MR. SETTIANA KRISHNASAMY: This date reflects,
8 I think -- my understanding is it reflects the time
9 during which they are shown.

10 BY MR. MOSSOS:

11 Q Do you know precisely what time this was
12 taken?

13 MR. SETTIANA KRISHNASAMY: We don't know.

14 BY MR. MOSSOS:

15 Q Do you know what the wind speeds were in
16 the various regions that are on the bottom red line
17 beyond the color copy?

18 MR. STEPHEN CRESS: Yes, we do. We
19 independently checked the wind speeds in the various
20 operating areas of ComEd in August 23rd to August
21 28th period. And from the NOWA Web site correlated
22 those wind speeds with the particular areas where

1 there was storm damage.

2 BY MR. MOSSOS:

3 Q And was that the only investigation you

4 conducted of the wind speeds?

5 MR. STEPHEN CRESS: We correlated those wind

6 speeds with the crossarm outages, and in the table on

7 Page 6 of our report.

8 BY MR. MOSSOS:

9 Q When it discusses a tornado in this graph,

10 when he tornado struck down, it did not travel the

11 length of this long line in the middle of the page

12 towards Lake Michigan, did it?

13 MR. STEPHEN CRESS: No, I don't believe so.

14 The tornado touched in some of the particular areas

15 where there was wind damage.

16 BY MR. MOSSOS:

17 Q It says brief tornado here. Do you know

18 how long it lasted?

19 MR. STEPHEN CRESS: No, I don't. But with

20 tornado winds even a very brief preferred high wind

21 would be sufficient to damage poles.

22

1 BY MR. MOSSOS:

2 Q And do you know what time it touched? Do
3 you know?

4 MR. STEPHEN CRESS: No -- I'm sorry -- not
5 offhand.

6 MR. MOSSOS: I think that was my last question.
7 Could I check something off the record.

8 (Whereupon, a discussion was had
9 off the record.)

10 MR. MOSSOS: No further questions. Thank you
11 very much.

12 JUDGE DOLAN: Mr. Lannon.

13 MR. LANNON: Thank you, your Honor.

14 CROSS-EXAMINATION

15 BY

16 MR. LANNON:

17 Q I represent the Staff of the Illinois
18 Commerce Commission, and I have a couple of hopefully
19 short questions for you.

20 Dr. Krishnasamy testifies that he's an
21 expert in structural wood components and the
22 performances of wood poles and crossarms. I was

1 wondering, Mr. Cress, do you have an expertise that's
2 reflected in ComEd Exhibit 3.01, a particular
3 expertise?

4 MR. STEPHEN CRESS: My expertise is in the area
5 of asset condition assessment methodologies, looking
6 at the condition and degradation of power
7 distribution system assets from a more general level.
8 And does Dr. Krishnasamy is the wood pole and
9 crossarm expert.

10 BY MR. LANNON:

11 Q You're not an attorney then; right?

12 MR. STEPHEN CRESS: Definitely not.

13 BY MR. LANNON:

14 Q Is there anything in ComEd Exhibit 3.01,
15 your analysis, that has any bearing on ComEd's
16 interpretation of 16-125?

17 MR. STEPHEN CRESS: Can you rephrase that or
18 maybe be a little more specific. I'm not too
19 familiar with the other document that you referred
20 to.

21 BY MR. LANNON:

22 Q Okay. Well, let me give you a little

1 background. As your counsel explained earlier -- I
2 think we were off the record -- there was a motion
3 for bifurcation here. There's essentially two
4 issues: The weather waiver issue and what Staff has
5 called the legal liability determination request,
6 which is essentially opposing interpretations of
7 Section 16-125 of the Illinois PUA.

8 And I'm just wondering did you prepare
9 ComEd Exhibit 3.01 to support ComEd's interpretation
10 of 16-125?

11 MR. STEPHEN CRESS: No. The document was
12 prepared in response to Mr. Lanzalotta's testimony in
13 order to look at the causes of the wood pole and
14 crossarm failures during storms. That was the
15 purpose of the report.

16 BY MR. LANNON:

17 Q So if a Commissioner were reading your
18 introduction -- and here I'm looking at the second
19 sentence where you use the word "discrete" in front
20 of "interruptions," -- that Commissioner shouldn't
21 look through Exhibit 3.01 for any support for the
22 usage of the word "discrete" relative to ComEd's

1 interpretation of 16-125?

2 MR. STEPHEN CRESS: No. The intention there
3 was simply to indicate there were several thousand
4 individual interruptions.

5 MR. LANNON: Thank you. That's all I have.

6 JUDGE DOLAN: Thank you.

7 Any redirect?

8 MR. RIPPPIE: I believe two questions, your
9 Honor.

10 REDIRECT EXAMINATION

11 BY

12 MR. RIPPPIE:

13 Q Gentlemen, if you could pick up again what
14 I believe is AG Cross-Exhibit 2. To be clear, that
15 is the response to Attorney General Data Request
16 4.03, the thicker of the two, and start a Page 1.

17 Now, that response indicates that
18 ComEd performs inspections, quote -- ComEd's performs
19 inspections of its circuits on a calendar year basis
20 with inspections due on December 31st of that year.

21 Could you please page through the
22 attachment from Page 1 through Page 20 and indicate

1 to me whether there's even one circuit in that
2 document that doesn't show an inspection within
3 4 calendar years.

4 MR. SETTIANA KRISHNASAMY: No, there isn't.

5 MR. RIPPIE: Thank you. That's all I have.

6 MR. MOSSOS: Your Honor, can I just recross on
7 that one question?

8 JUDGE DOLAN: Sure.

9 RECROSS-EXAMINATION

10 BY

11 MR. MOSSOS:

12 Q Can I refer your attention to Page 11, the
13 very first line, what is the date of that, the very
14 first line, G995 Circuit?

15 MR. SETTIANA KRISHNASAMY: 2002.

16 BY MR. MOSSOS:

17 Q June 26, 2002; correct?

18 MR. SETTIANA KRISHNASAMY: That's correct.

19 MR. MOSSOS: Thank you very much.

20

21

22

1 FURTHER REDIRECT EXAMINATION

2 BY

3 MR. RIPPIE:

4 Q To be clear, Mr. Mossos is right. There is

5 one circuit, that's the 500-odd circuit that appears

6 in this chart that is beyond 4 years; correct?

7 MR. SETTIANA KRISHNASAMY: That's correct;

8 that's the one circuit.

9 JUDGE DOLAN: Are you going to admit your

10 cross-exhibit into the record?

11 MR. RIPPIE: No objection.

12 JUDGE DOLAN: Okay. AG Cross-Exhibit No. 1 and

13 Cross-Exhibit No. 2 will be admitted into the record.

14 (Whereupon, AG Cross-Exhibit

15 Nos. 1 and 2 were admitted into

16 evidence.)

17 MR. DOLAN: Thank you, gentlemen.

18 You may proceed.

19

20

21

22

1 PETER J. LANZALOTTA,
2 called as a witness herein, having been first duly
3 sworn, was examined and testified as follows:
4 DIRECT EXAMINATION
5 BY
6 MR. MOSSOS:
7 Q Good morning, Mr. Lanzalotta. Could you
8 state your full name for the record, please.
9 A Peter J. Lanzalotta, L-a-n-z-a-l-o-t-t-a.
10 Q And what is your business address?
11 A 67 Royal Point Drive, Hilton Head Island
12 South Carolina 29926.
13 Q And by whom are you employed?
14 A I work for myself Lanzalotta & Associates,
15 LLC.
16 Q I have what's been marked as the direct
17 testimony of Peter J. Lanzalotta marked for
18 identification as AG Exhibit 1.0 with the
19 accompanying Exhibit 1.1 up to and including 1.7.
20 Did you prepare and direct the preparation of that
21 testimony?
22 A Yes.

1 Q If you were asked the questions contained
2 in your testimony today, would your answers be the
3 same?

4 A Yes.

5 Q Is the information contained in your
6 testimony and attached to exhibits and schedules true
7 and correct to the best of your knowledge and belief?

8 A Yes.

9 MR. MOSSOS: Your Honor, we would move
10 Mr. Lanzalotta's testimony and accompanying exhibits
11 into evidence at this time, subject to cross.

12 JUDGE DOLAN: Any objection?

13 MR. RIPPIE: No.

14 MR. LANNON: No.

15 JUDGE DOLAN: AG Exhibit 1.0 along with AG
16 Exhibit 1.1 through 1.7 will be admitted into the
17 record.

18 (Whereupon, AG Exhibit No. 1.0
19 and AG Exhibits 1.1 through 1.7
20 were admitted into evidence.)

21 JUDGE DOLAN: Mr. Rippie, are you ready to
22 proceed?

1 MR. RIPPIE: Yes, your Honor.

2 CROSS-EXAMINATION

3 BY

4 MR. RIPPIE:

5 Q Good morning, Mr. Lanzalotta.

6 A Good morning, Mr. Rippie.

7 Q How are you?

8 A I'm good.

9 Q I hope you had a decent flight, at least.

10 We'll try to get you out of here on time.

11 First, general principles that we

12 perhaps can achieve agreement on.

13 Would you agree with me that storm

14 systems in North America are a common cause of damage

15 to properly designed utility systems?

16 A Yes.

17 Q And storms, in fact, can cause

18 unpreventable damage to utility facilities in a

19 variety of ways, can they not?

20 A Yes, they can.

21 Q They can cause damage to equipment that is

22 brand-new as well as equipment that has been in

1 service for a number of years; is that also correct?

2 A That is correct.

3 Q Would you agree that nationally weather is
4 the single most common cause of damage to utility
5 systems?

6 A I would be willing to say yes, subject to
7 check.

8 Q Fair enough.

9 And the types of ways that storm
10 systems can damage properly designed utility
11 facilities include, for example, winds that exceed
12 design for construction standards?

13 A Yes.

14 Q Lightning strikes, is that another example?

15 A Yes.

16 Q And in the case of lightning strikes,
17 lightning damage can occur because of a direct strike
18 on the facility or because of ground current flows;
19 right?

20 A Yes.

21 Q And in particular, ground current flows
22 could damage underground facilities as well as

1 overhead facilities; am I correct?

2 A That's correct. I can also envision other
3 ways in which lightning can cause damage as well. It
4 can hit a tree line, break a piece of it and have it
5 come down.

6 Q Fair enough.

7 Since you mentioned it another way,
8 storms can cause outages by causing contact between
9 utility facilities and branches on other vegetation
10 that remains intact; in other words, it blows a
11 branch into the line?

12 A I'm not sure what you meant by the phrase
13 "intact,"; but contact between trees and some wires,
14 yes.

15 Q I was just trying to distinguish between a
16 circumstance where the wind blows a branch into the
17 line causing a contact flashover, for example, as
18 oppose to a situation where the wind blows a tree
19 down and it falls on the line and blows it down.
20 Both of those can occur; correct?

21 A That's correct.

22 Q It can also cause damage through flooding;

1 right?

2 A Yes.

3 Q Would you also agree with me that weather
4 conditions -- in particular, severe weather
5 conditions -- can impede and delay restoration
6 efforts after an interruption occurs?

7 A I agree.

8 Q It can also do that in a variety of ways,
9 including by causing safety concerns for the crew by
10 impeding access of the crew to the outage and/or by
11 screwing the area with debris?

12 A Yes.

13 Q Would you agree that you do not recommend
14 ComEd to take unreasonable or imprudent actions in
15 order to reduce weather-related interruptions?

16 A Stated like that, I agree.

17 Q I thought you might.

18 And in determining what type of
19 reliability performance ought to be expected of a
20 system, you have recommended to the Commission that
21 it consider both technical issues as well as
22 practicality and cost, right; for example in the rate

1 case a couple months ago?

2 A I believe I did.

3 Q You still agree with that recommendation?

4 A Yes.

5 Q Now, am I correct based on the ways in

6 which storm systems cause damage to utility

7 facilities, that the type of storm that one might

8 expect to cause unpreventable damage to a delivery

9 system would be one that produced strong wind, high

10 rates of lightning, high rain rates, lots of debris,

11 and widespread damage to vegetation?

12 A Yes.

13 Q Are you aware of any storm system that has

14 passed through ComEd's service territory in the

15 summer that has caused more lightning strikes, higher

16 rain rates, more widespread damage to vegetation and

17 other infrastructure in the last 10 years than the

18 August 23, 2007 summer storm?

19 A No.

20 Q You have reviewed the description of the

21 August 23rd storm system in ComEd's petition and

22 testimony; is that correct?

1 A Yes.

2 Q And am I also correct that you are aware of
3 no data that contradicts in any way the description
4 of the winds, lightning, and other weather
5 characteristics of the August 23rd storm system as
6 set forth in ComEd's verified petition in the
7 testimony of Mr. Segneri?

8 A I do not.

9 Q And you have no other basis for questioning
10 the severity of the storm as described by the
11 petition and Mr. Segneri, do you?

12 A No.

13 Q You weren't here personally when it
14 occurred?

15 A That's correct.

16 Q Now, on Lines 56 through 58 of your
17 testimony you state -- and I'll try to quote it
18 correctly -- please tell me if I didn't -- The
19 outages that occurred when a major frontal weather
20 system crossed the company's service territory on
21 August 23 are obviously not independent events but
22 are strongly interrelated in both cause and effect.

1 Did I get it right?

2 A Yes, you did.

3 Q By the "outages" you mean the roughly 4300

4 interruptions that are mentioned in the petition; is

5 that right?

6 A Yes.

7 Q And by stating that those interruptions are

8 strongly interrelated in cause, am I correct that you

9 mean that they all resulted from that major frontal

10 weather system of August 23rd; correct?

11 A Insofar as I am aware, yes.

12 Q In stating that those interruptions are

13 interrelated, in effect, you simply mean that they

14 resulted in various customers being out of service

15 until they were restored?

16 A Pretty much, yes.

17 Q Is there any other way that they were

18 strongly interrelated, in effect?

19 A Well, the fact that there were so many of

20 them certainly had an effect insofar as service

21 restoration time.

22 Q Now, do you agree with ComEd that there are

1 standards for the design delivery facilities of the
2 type that were involved in the interruptions in this
3 case?

4 A Yes.

5 Q And there were both design standards and
6 construction standards; right?

7 A Yes.

8 Q Now, ComEd has literally hundreds of pages
9 of construction standards; right?

10 A That's correct, they do.

11 Q And your testimony, as I recall, does not
12 discuss the construction standards; am I correct?

13 A That's correct.

14 Q And there are design standards as well that
15 are separate from instruction standards; right?

16 A Yes.

17 Q And you are aware of no accepted and
18 applicable electric utility or engineering standard
19 other than those cited and discussed in the testimony
20 of Dr. Krishnasamy, Mr. Cress and Mr. Segneri, are
21 you?

22 A That's what I said in response to your data

1 request to that effect, yes.

2 Q And principally the design standard
3 applicable to, for example, the ability to withstand
4 wind blowing is the NESC, National Electric Safety
5 Code Standards; is that right?

6 A Yes, they address clearances and the like.

7 Q And they also address the degree of load
8 strength that poles and crossarms are expected to
9 withstand; correct?

10 A Yes.

11 Q Do you have a detailed familiarity with
12 those standards?

13 A I've had occasion to refer to them on
14 fairly frequent occasion.

15 Q Okay. Would you agree with me and stop me
16 if I ask you a question that exceeds your familiarity
17 with them or tell me it exceeds your familiarity.
18 Those standards specify strengths based on the date
19 on which the pole is installed; right?

20 A I believe so, yes.

21 Q Now, nothing in your testimony recommends
22 that ComEd be required to install or operate a system

1 that exceeds NESC requirements in any way, does it?

2 A No, it does not.

3 Q You agree that the NESC does not have an

4 age limit on the poles?

5 A I agree.

6 Q And there's not even a target age for a

7 wood pole replacement in the NESC, is there?

8 A Not that I'm aware of.

9 Q The same is true for crossarms, right, no

10 limit and no target?

11 A Yes.

12 Q And no standard, NESC or otherwise,

13 requires an overhead distribution facility to be able

14 to withstand an impact from a tree branch or a tree;

15 right?

16 A There's nothing specifically stated.

17 Although, I'm sure the intent is that a tree

18 branch -- there are a lot of different kinds of

19 branches. You would hope it would withstand some of

20 those.

21 Q Nothing in the NESC requires it to

22 withstand an impact of a tree branch or a tree whose

1 force impedes the force loading limits in the
2 standard?

3 A That's correct.

4 Q Nothing in the NESC requires it to
5 withstand a lightning strike?

6 A I agree with that.

7 Q Nothing in the NESC requires it to continue
8 operating properly if it's subject to a flood; is
9 that true?

10 A As far as I am aware.

11 Q Now, as I understand it, your opinion that
12 crossarms have a life of 25 to 35 years is based not
13 on any standard or study but on your, quote, personal
14 experience, unquote; is that correct?

15 A Yes.

16 Q And your view that ComEd crossarms maybe,
17 quote, brittle due to age is also based on your
18 personal experience; is that right?

19 A It's based on my experience regarding
20 crossarms in general, yes.

21 Q But you were unable to identify any
22 articles, references, studies, or reports that

1 support your conclusions concerning the supposed
2 brittleness of those crossarms installed on ComEd
3 system; or, for that matter, that evaluate or measure
4 the effects of aging of crossarms in terms of
5 brittleness?

6 A Other than what I thought I addressed in my
7 testimony itself, the data regarding age of
8 components on ComEd's system indicates that median
9 life of crossarms is -- or median age of crossarms on
10 the system is less than that median age of wood
11 distribution poles.

12 Q Putting aside the fact that you believe
13 that the installed age gives rise to that inference,
14 you weren't able to identify any third-party
15 articles, references, studies, or reports that
16 support your conclusion that crossarms become
17 excessively aged or brittle after 25 to 35 years;
18 right?

19 A No.

20 Q You did not physically inspect any of the
21 locations where a ComEd distribution facility
22 suffered damage during the August 23rd storm system,

1 did you?

2 A No.

3 Q You haven't physically inspected any ComEd
4 distribution equipment that failed during the storm
5 system; right?

6 A Right.

7 Q As I recall, you never made a request to do
8 that, did you?

9 A I did not.

10 Q Did you physically inspect any equipment
11 installed in the ComEd system at the same age in
12 vintage in that which failed?

13 A No.

14 Q And, in fact, you have not physically
15 inspected any ComEd distribution equipment that
16 currently remains in service in connection with your
17 testimony in this docket; isn't that correct?

18 A Yes.

19 Q Now, you identified with respect to --
20 strike that.

21 You identify in your testimony several
22 ComEd reliability reports; am I correct?

1 A Yes.

2 Q And you reviewed those reports not only in
3 connection with this case but also in connection with
4 your testimony in ComEd's pending general rate case,
5 Docket 07-0506; is that correct?

6 A Yes, it is.

7 Q Now, am I correct that all three of those
8 reports conclude that the Commonwealth Edison system
9 is performing reliably?

10 A Yes.

11 Q That fact was the principal conclusion of
12 the first page of each of those reports; am I
13 correct?

14 A I believe it is.

15 Q To your knowledge, has the Commerce
16 Commission questioned or refused to accept any of
17 those reports?

18 A Not to my knowledge.

19 Q Now, in the rate case when you evaluated
20 those reports, am I correct that your testimony
21 reached the conclusion -- and I quote -- There does
22 not appear to be a pressing mandate to significantly

1 increase the company's historical reliability
2 importance?

3 A I remember saying that.

4 Q Did you also testify to the effect that
5 there was no apparent need for Commonwealth Edison to
6 increase its spending in order to, quote, drive a
7 shift in the company's system reliability?

8 A You said "drive a shift"?

9 Q Yeah, actually I think those were your
10 words?

11 A Those were my words?

12 Q I'll show it to you?

13 A No, I'll accept it.

14 Q And all of that testimony that I just
15 talked about was submitted after the August 23, 2007
16 storm, wasn't it?

17 A Yes.

18 Q Now, will you agree with me that you are
19 not a specialist in wood material strength or aging?

20 A Yes.

21 Q Would you agree with me that you have, in
22 fact, testified and opined on a huge variety of

1 subjects relating to electric -- and in some cases
2 non-electric -- but mostly electric utilities in the
3 course of your career?

4 A Yes.

5 Q You have not specialized in evaluating the
6 failure of electric utility systems after storms or
7 other events, have you?

8 A I've done other things as well.

9 Q Nonetheless, you have not specialized in
10 that; right?

11 A I have a lot of experience in that.

12 Q Well, in response to data requests you
13 identify some utility experience; right?

14 A I believe I identified utility experience
15 in which I submitted testimony.

16 Q Well, the utility experience -- Okay. Fair
17 enough.

18 You're not relying, then, as a basis
19 for your qualifications on the 3 years you spent as
20 an associate at DB & E (phonetic) or your brief work
21 for the Connecticut Municipal back in the '80s;
22 right?

1 A In part, my work with Baltimore Gas &
2 Electric was very much oriented towards distribution
3 operations. As part of that work, for example, we
4 managed companies' response to storm situations. I
5 was also on call when there was a public contact
6 incident. I would have to go out with the lawyers,
7 make sure we had the information to determine whether
8 the facility in question were in compliance with the
9 proper set of National Electric Safety Code
10 requirements.

11 We would work closely with troubled
12 departments -- not that they would make trouble, they
13 were the ones that responded to trouble -- and even
14 occasionally would go out with the trouble man.

15 Q In this case, though, we've established
16 that you haven't had an opportunity to do any of
17 those things with respect to any of the ComEd
18 equipment; right? You haven't gone out and looked at
19 it, you weren't with any ComEd crew ever, and you're
20 not familiar with how ComEd actually operates its
21 restoration program, are you?

22 A I would agree.

1 Q And your total utility experience
2 consists -- that is, working for utilities in an
3 engineering capacity -- consists of the three years
4 at BGA as a, quote, associate engineer, end quote,
5 when you first got out of school and a short period
6 of time with the Connecticut Municipal whose total
7 load, as I recall your prior testimony, was 15
8 megawatts?

9 A That was South Carolina Electric Works
10 (phonetic) --

11 Q Correct.

12 A -- so that was in, I believe, hundreds of
13 megawatts.

14 Q But you weren't an operating engineer for
15 that outfit, right, you were primarily dealing with
16 computerization issues and rate design and regulatory
17 matters; true?

18 A Primarily. We had instance to work on some
19 substation and subtransmission-type supply questions.
20 But there wasn't any distribution-related work.

21 Q And of the 88 or 89 projects that you
22 identified in the submission that you made to define

1 your experience, only eight you identified as
2 relating in any way to the areas of material
3 condition of electric distribution systems,
4 evaluation of damage to electric distribution systems
5 caused by weather events, design construction or
6 maintenance standards applicable to distribution
7 systems, or the restoration of distribution systems
8 after an outage; is that correct?

9 A That is correct. But that doesn't
10 represent the sum total of my experience in that
11 area. For example --

12 Q Well, I'm just asking you about what you
13 identified in your document. I'm not asking you to
14 go off the document that you submitted.

15 A I gave you specifically what you asked for.
16 You asked for testimony. A lot of my work in this
17 area never resulted in a piece of testimony.

18 Q I wasn't referring to that. I was
19 referring to the qualifications that you attached to
20 your CV. Your CV lists after the textual description
21 of your qualifications a whole list of assignments.

22 A Those are cases testified in.

1 Q You designed that CV; correct? I didn't
2 ask you to make your CV that way; right?

3 A Fair enough.

4 Q Okay. And of those 89, 8 of them relate to
5 those 4 areas?

6 A I believe that's what I identified.

7 Q They do, however, include a rather
8 impressive list of other topics, and I'm going to
9 zoom through them before I get into the rate case,
10 and tell me if I've added any that you actually
11 haven't testified about.

12 I'm going to start with some new ones:
13 Transmission tariffs, market power, wholesale, market
14 manipulations, utility mergers, electric magnetic
15 fields, transmission line sighting, retail rate
16 design, retail rate caps, service line extensions,
17 performance-based rates, and designs of special
18 renewable energy zones, those are all in the last
19 decade; right?

20 A Yes -- well, the renewable energy zones
21 testimony was virtually all transmission-related.

22 Q Okay. Fair enough. But those are all in

1 the last decade; right?

2 A Yes.

3 Q And if I take your whole list, we can add
4 to that co-generators, small power producer rates,
5 fuel inventories, fuel supply and acquisitions, bulk
6 power purchases and sales, reserve margins, regional
7 capacity planning, generation operations, generation
8 unit failure, generation station planning, allocation
9 of production costs among operating units, nuclear
10 decommissioning, nuclear contract evaluation, rates
11 of return, data security, financial reporting, and
12 utility computer applications; right?

13 A I'm not sure how involved my work was on
14 rates of return. In general, I would have to say,
15 yes.

16 Q Now, 10 years ago -- actually, I believe
17 it's 13 years ago you testified to this Commission
18 that you were unable, in your words, to name a single
19 area of the electric -- I'm sorry -- unable or you
20 chose not to in your words name a single area of the
21 electric utility industry in which you did not
22 consider yourself qualified as an expert.

1 Is that still true?

2 A I'm sure there are areas today in which I'm
3 not, but...

4 Q Can you think of one?

5 A As I sit here, I'm not going to try to
6 generate a list.

7 Q You would agree with me, though, that there
8 are engineers who actually do specialize in the
9 analysis of failure of the distribution systems and
10 the performance of wood poles and crossarms; right?

11 A Yes.

12 Q Now, I did notice in your resume that you
13 identify several times that you have testified before
14 this particular Commission; right?

15 A Yes.

16 Q And do you have your resume in front of
17 you?

18 A Yes.

19 Q If you can refer to the item identifies as
20 No. 35, that was a case in which you presented
21 engineering testimony and proposed a design of a
22 system to this Commission, is it not?

1 A A design alternative to what the company
2 had proposed, yes.

3 Q Do you recall what conclusions the
4 Commission reached about your work?

5 A I know they didn't accept my alternative
6 design.

7 Q Do you recall whether the Commission found
8 in its order that there were serious advocacy and
9 reliability questions associated with your
10 recommendation?

11 A I don't recall ever having seen the order.

12 Q You've never seen the order?

13 A I don't believe I have.

14 Q Okay. But -- you know what? It's an order
15 of the Commission. So we'll do it that way.

16 You will verify that the particular
17 order in question in No. 35 is ICC Docket 92-0221
18 reopened?

19 A I'm sorry. Come again.

20 Q Well, the common name for it was the
21 Electric Junction Transmission Line Project; is that
22 correct?

1 A It might have been. That's 15, 16 years
2 ago.

3 Q It was Docket 92-0221; is that right?

4 A If that what it says, yes.

5 Q Now, on Pages 5 through 6 of your
6 testimony -- one more question.

7 Is it also true that the Commission
8 has never accepted one of your alternative design
9 recommendations in any of the cases where you've made
10 them -- this Commission?

11 A You mean in terms of these transmission
12 line alternative cases?

13 Q Transmission or in one case high voltage
14 distribution, yes.

15 A Not that I'm aware of.

16 Q Now, we'll go to Page 5 through 6, Lines
17 118 through 129 of your testimony. Those provisions
18 of your testimony venture a view of how Section
19 16-125(e) of the Public Utilities Act should be
20 interpreted at this time; is that essentially
21 correct? I understand you're not offering a legal
22 interpretation.

1 A Yes.

2 Q If you take a look at ComEd's Exhibit A, do
3 you know what the largest single continuous power
4 interruption suffered by customers was during the
5 August 23rd storm, which interruption it was?

6 A No.

7 Q If you went through Exhibit A, you could
8 figure it out by looking down the column that lists
9 the number of customers until you found the one that
10 had largest number of customers affected; correct?

11 MR. MOSSOS: Objection, your Honor. I think
12 this calls for a legal interpretation. We still
13 haven't determined how we're going to interpret a
14 single continuous interruption, and he's asking the
15 witness to make that legal determination based on how
16 ComEd has been arguing.

17 MR. RIPPIE: First of all, I'm not. I'm asking
18 the witness to use terms that he uses. I'm not
19 telling him they have the same meanings in the
20 statute. But Pages 5 through 6, Line 118 through 129
21 of his testimony ventures an opinion on just that
22 subject. The last line of that question and answer

1 he quotes the statute -- I'm not asking for a legal
2 opinion. I'm asking for the same basis that he had
3 when the wrote the testimony.

4 JUDGE DOLAN: I'll overrule the objection.

5 BY MR. RIPPIE:

6 Q In order to figure out what the largest one
7 is, what the largest interruption was, you read down
8 the column that says "number of customers affected"
9 until you found the one that had the larges number of
10 customers affected; right?

11 A It's a little more complex than that. As I
12 recall, sitting here -- now we're talking about
13 Appendix A?

14 Q Yes.

15 A Okay. Each line in Appendix A, as I
16 recall, is an outage segment. For example, if you
17 have a pole come down and knock down the distribution
18 feeder as it exits the substation, the entire feeder
19 goes out, that entire feeder doesn't necessarily show
20 up as one line on your Appendix A.

21 If one tap of that feeder was restored
22 in a half-hour and another tap of that feeder was

1 restored in 40 minutes and another tap was restored
2 in 60 minutes and another tap -- each one of those is
3 going to show up as a separate line. So it's a
4 little bit more complex than what you're trying to
5 describe.

6 Q Fair enough.

7 With the caveat that you would have to
8 correlate rows on that appendix, in your view, where
9 those rows relate to a common piece of equipment, in
10 this case a feeder, with that caveat, the process you
11 would use is to generally go down the column that
12 listed the number of customers affected; and making
13 that summation where you've just explained you think
14 you ought to make it, you would find the one that has
15 the largest customer impact; right?

16 A It would tell me what particular segment.

17 Q And to determine the longest in time you
18 would look down that -- the columns for the start
19 time of the interruption and the end time of the
20 interruption and determine its duration and figure
21 out which one -- again, subject to your caveat about
22 combining ones that affected the same feeder -- and

1 determine which one was the longest; right?

2 A My caveat was which ones are caused by
3 common cause. But, yes.

4 Q Is it your view, Mr. Lanzalotta, that on
5 August 23rd and August 24th there was one
6 interruption in ComEd's service territory?

7 A No, it's not.

8 MR. RIPPIE: That's all I have. Thank you.

9 MR. LANNON: Just one minute, your Honor.

10 MR. DOLAN: Sure.

11 CROSS-EXAMINATION

12 BY

13 MR. FOSCO:

14 Q Good morning, Mr. Lanzalotta. My name is
15 Carmen Fosco. I'm one of the attorneys representing
16 Staff.

17 A Good morning.

18 Q Just a few questions.

19 As I understand your testimony, one of
20 the issues you address is the impact of the age of
21 certain equipment on the outages that occurred
22 correct -- or the potential impact of the age of

1 certain equipment?

2 A Yes.

3 Q Have you formed an opinion as to whether
4 the age actually, in fact, had any impact, had the
5 age of any ComEd's equipment?

6 A I believe it to be highly likely given the
7 type of storm we're talking about.

8 Q And on what is that opinion based?

9 A When you get a storm like this, high winds
10 and all, in sections where -- especially on the
11 distribution system -- where the vegetation is
12 trimmed so as to retain a canopy, the electric wires
13 is subjected to a virtual hail of objects coming out
14 of this canopy, little branches, big branches, limbs,
15 sometimes entire trees, while even a brand-new pole
16 line with crossarms probably would have difficulty
17 withstanding a hit from a big enough tree as it came
18 down.

19 When you're in this type of situation
20 of a whole range of different sized objects coming
21 down, if your entire system is brand-new, it's going
22 to be more resistive to a larger percent of these

1 objects than it would have the if the pole line and
2 the crossarms were all 50 years old.

3 And so given the age and information I
4 can see about crossarms on the system, I believe that
5 age at least had a contributing factor.

6 Q The only evidence you rely on is certain
7 evidence you've retained regarding what you consider
8 to be the age of certain equipment and no direct
9 evidence of any actual outages being involved or
10 caused by the specific age of specific equipment? I
11 mean, you don't have any evidence that ComEd
12 experienced routing crossarms or anything like that,
13 do you?

14 A No, I do not.

15 Q Other than your observation regarding age
16 of equipment, you haven't offered any other testimony
17 have you on what could or should have been provided
18 to establish whether there was unpreventable weather
19 damage that resulted in these outages?

20 A No.

21 Q Am I correct that the main focus of your
22 testimony in terms of the aged equipment is with

1 respect to crossarms?

2 A As far as what I discussed in my testimony,
3 yes.

4 Q Okay. And do you know how many customers
5 interruptions are identified in Attachment A to
6 ComEd's petition and reflected again in the response
7 to a Staff data request provided in spreadsheet form
8 that they've identified as involving crossarms?

9 A I think it's relatively few. I'm not sure
10 of the number.

11 Q Under 6,000?

12 A I'd have to take -- accept it subject to
13 check.

14 Q Would you accept subject to check that --
15 well, that there are 3 items that appear to be
16 related to crossarms in Attachment A, one called just
17 Crossarm another identified as Alley Arm and a third
18 identified as Cross/Alley Arm?

19 A It's entirely possible. I wasn't confident
20 in Appendix A in giving specific detailed and correct
21 data on causes simply because in a situation like
22 that it's just about an all-hands-on-deck type of

1 drill. And the company has anyone out in the field
2 who is capable of helping. I don't think you're
3 going to get the same consistency on determining
4 outages that you would get on a normal day-to-day
5 basis when the people that are doing that are the
6 ones that do it every day.

7 Q Would you agree subject to check that those
8 are the only 3 items identified as involving
9 crossarms?

10 A Yes.

11 Q And would you also agree subject to check
12 that the number of customer interruptions associated
13 with those are 5,580 for crossarms, 415 customers for
14 alley arms, and 311 customers for cross/alley arms?

15 A Yes, subject to check.

16 Q And you don't have any personal knowledge
17 that any interruptions were caused by crossarms other
18 than those identified by ComEd?

19 A No.

20 Q On Page 9 of your testimony you have some
21 testimony about the spreadsheet provided by the
22 company in response to Data Request OGC 1.01,

1 Attachment 1. And you testified that more than
2 40 percent of the almost 6800 outage segments
3 reflected in Appendix A attributed to a problem with
4 phase wires that required a fix other than removing a
5 tree -- it says "of" -- I think you meant or
6 replacing a fuse.

7 Do you see that?

8 A Yes.

9 Q Is what you mean by that is that in the
10 restoration or remediation column of that chart the
11 company didn't list for the ones you identified --
12 tree removal or replacing a fuse -- as the
13 restoration, they identified something else?

14 A Yes.

15 Q Would you agree that the largest -- let me
16 ask you this:

17 Are the ones that weren't identified
18 as tree removal or a fuse replacement, would you
19 agree that a significant number of those are labeled
20 as temporary switching?

21 A I would be willing to take that, subject to
22 check.

1 Q Would you explain to us what temporary
2 switching is?

3 A It's essentially where you take someone out
4 in order to effect repairs or to cut back and of the
5 facilities that have been repaired.

6 Q Isn't it true that for ComEd that they're
7 able to tie in one distribution circuit to another
8 distribution circuit to restore service to customers?

9 A Yes, that's possible too.

10 Q And if they do that, that doesn't indicate
11 that there's not tree damage or a fuse that needs
12 replacing; is that true?

13 A Yes.

14 MR. FOSCO: No further questions. Thank you
15 very much.

16 MR. MOSSOS: Can I have five minutes?

17 JUDGE DOLAN: Sure. Let's take five minutes.

18 (Whereupon, a brief recess was
19 taken.)

20

21

22

1 REDIRECT-EXAMINATION

2 BY

3 MR. MOSSOS:

4 Q Mr. Lanzalotta, does the fact that you do
5 not specialize in one area rid you from testifying in
6 this case?

7 A Not that I'm aware of.

8 Q Mr. Rippie stated there are 3 reports you
9 have looked at -- I believe there's the ComEd report?
10 And he stated that the conclusion is that the ComEd
11 system was operating properly.

12 Isn't it true that these reports are
13 authored or commissioned by ComEd?

14 A I believe so, yes.

15 Q Mr. Rippie also offered a plethora of
16 reasons showing how storms can cause damage to
17 utility service. He stated high rates of lightning,
18 high wind speeds, et cetera.

19 You stated that you accepted ComEd's
20 general description of the weather system in its
21 filing; is that correct?

22 A Yes.

1 Q And you did not do an independent
2 investigation of those statements during the storm?
3 A No, I did not.
4 Q Isn't it true that ComEd generally
5 described the storm system occurring August 23rd or
6 24, but does not go into detail? For instance, they
7 do not state where the storm happened, a specific
8 town or municipality, do they?
9 A No, they do not.
10 Q They did not state what time a storm passed
11 through the town, do they?
12 A No.
13 Q Isn't it true that some outages occurred as
14 many as 4 to 5 days after the storm system left?
15 A I'm aware of several, yes.
16 Q And you agreed when Mr. Rippie asked you
17 that you storm systems in general could cause
18 unpreventable weather damage; is that correct?
19 A Yes.
20 Q Can I direct your attention to ComEd
21 Exhibit 1.02, Page 24.
22 JUDGE DOLAN: What page?

1 MR. MOSSOS: Page 24 of 49, the gives a graph
2 on the right side.

3 BY MR. MOSSOS:

4 Q Is it correct that this lists several
5 causes of the interruptions that were caused
6 allegedly due to the August 23rd storm system?

7 A Yeah, we're looking at the table on the
8 right-hand side.

9 Q Correct.

10 A That's what it does.

11 Q And does it list as a cause "intentional"
12 on the left column?

13 A Yes, it does.

14 Q So is an intentional cause weather-related?

15 MR. RIPPPIE: I object to the question. This is
16 beyond the scope, and it's also about the seventh
17 leading question. But the principal objection is I
18 didn't ask about this. I asked about how storms can
19 damage utility equipment in general, and I asked
20 whether he had any problem with ComEd's description
21 of the storm purpose.

22 MR. MOSSOS: He asked whether or not the storm

1 system caused unpreventable weather damage, and he
2 did allude to some of the -- he did say he accepts
3 what ComEd has given in his testimony, this is what
4 ComEd had given, and just trying to show that there
5 is not unpreventable weather damage.

6 MR. RIPPIE: This testimony is what is. This
7 is going to the record with Mr. Segneri. And the
8 Attorney General is welcome to cross-examine
9 Mr. Segneri on this at length, but I did not ask
10 about this document. I did not ask Mr. Lanzalotta
11 about this aspect of the testimony. This is beyond
12 the scope of my cross.

13 MR. MOSSOS: It is part of your file, and he
14 did admit that he accepts as true everything that
15 ComEd filed. And I only have 3 brief questions on
16 this.

17 JUDGE DOLAN: I would overrule the objection.

18 BY MR. MOSSOS:

19 Q Is an intentional cause weather-related?

20 A Not as far as I'm aware, no.

21 Q And how many customers lost power due to
22 that intentional cause?

1 A More than 31,000.

2 Q And is a public cause weather-related?

3 A Not typically. But it's a little more

4 difficult to say in a heavy storm. Typically, public

5 like this involves vehicles hitting facilities and

6 the strictly not storm. Although, I guess the storm

7 can be a contributing factor.

8 Q And these unknown causes that are listed,

9 do you know if this is weather damage or

10 weather-related?

11 A It's very difficult to say.

12 MR. MOSSOS: Thank you. No further questions.

13 JUDGE DOLAN: Any re-cross?

14 RE-CROSS-EXAMINATION

15 BY

16 MR. RIPPIE:

17 Q Mr. Lanzalotta, do you know what

18 Commonwealth Edison's definition of "intentional" is?

19 A My interpretation of it is that --

20 Q I asked you a simple question. Do you know

21 what Commonwealth Edison's definition of

22 "intentional" is?

1 A Not specifically.

2 Q Do you know what Commonwealth Edison's

3 definition of "public" is?

4 A Yes, I believe I do.

5 Q Okay. What is it?

6 A I believe it's actions of the -- by the

7 public that take out the service. A typical example

8 I gave was someone driving a car and hitting a pole.

9 Q So if somebody were to, say, slide on a

10 slippery street and drive their car into a pole, that

11 would be classified as public?

12 A Yes?

13 Q If someone was trying to remove a damaged

14 tree from a yard and dropped it on a service line,

15 that would be public?

16 A I believe, yes.

17 MR. RIPPIE: Thank you. That's all I have.

18 JUDGE DOLAN: Thank you.

19 Any recross?

20

21

22

1 RECROSS-EXAMINATION

2 BY

3 MR. FOSCO:

4 Q With respect to what you identify as --

5 refer to as "intentional," in your experience

6 wouldn't there be some intentional interruption

7 caused to repair damage from a storm?

8 A Yes. I believe I mentioned a scenario when

9 you were crossing me.

10 Q And that would still be related to the

11 storm, would it not?

12 A I believe it would.

13 MR. FOSCO: No further questions.

14 JUDGE DOLAN: All right. Thank you, sir.

15 THE WITNESS: Thank you.

16 JUDGE DOLAN: Okay. Staff?

17 MR. LANNON: Your Honor, with your permission

18 Staff would call Mr. Ronald Linkenback?

19 JUDGE DOLAN: Okay.

20

21

22

1 RONALD LINKENBACK,
2 called as a witness herein, having been first duly
3 sworn, was examined and testified as follows:
4 DIRECT EXAMINATION
5 BY
6 MR. LANNON:
7 Q Could you please state your name for the
8 record, spelling your last name.
9 A Ronald Linkenback, L-i-n-k-e-n-b-a-c-k.
10 Q And by whom are you employed?
11 A By the Illinois Commerce Commission.
12 Q What's your position with the Illinois
13 Commerce Commission?
14 A I'm an electrical engineer.
15 Q Do you have before you a document labeled
16 ICC Staff Exhibit 1.0 entitled the Direct Testimony
17 of Ronald Linkenback?
18 A Yes.
19 Q And does that consist of 17 pages of
20 questions and answers?
21 A Yes, it does.
22 Q And there is no exhibit attached to ICC

1 Staff Exhibit 1.0 is there?

2 A There is not.

3 Q Do you also have a document in front of you

4 labeled ICC Staff Exhibit 2.0 and entitled Cross

5 Response Testimony of Ronald Linkenback?

6 A Correct.

7 Q And does that consist of five pages of

8 questions and answers?

9 A Yes, it does.

10 Q With no exhibit attached to it?

11 A Correct.

12 Q Were both ICC Staff Exhibit 1.0 and ICC

13 Staff Exhibit 2.0 prepared by you or under your

14 direction?

15 A Yes, they were.

16 Q Are there any changes you would like to

17 make to the document?

18 A No.

19 Q If I were to ask you the same questions

20 contained in ICC Staff Exhibit 1.0 and ICC Staff

21 Exhibit 2.0, would your answer be the same?

22 A Yes.

1 MR. LANNON: Your Honor, Staff would now submit
2 Staff Exhibits 1.0 and 2.0 for admittance into the
3 record, pending cross-examination of Mr. Linkenback.
4 JUDGE DOLAN: Any objections?
5 MR. RIPPIE: No.
6 JUDGE DOLAN: All right. ICC Staff Exhibit 1.0
7 and ICC Staff Exhibit 2.0 will be admitted into the
8 record.
9 (Whereupon, ICC Staff Exhibit
10 Nos. 1.0 and 2.0 were admitted
11 into evidence.)
12 JUDGE DOLAN: All right. Mr. Mossos any
13 questions.
14 MR. MOSSOS: We waived cross for this witness.
15 JUDGE DOLAN: Okay. Mr. Rippie?
16 MR. RIPPIE: I'll be very brief.
17 CROSS-EXAMINATION
18 BY
19 MR. RIPPIE:
20 Q Good morning, Mr. Linkenback.
21 A Good morning.
22 Q Could you please refer to Line 220 of

1 Exhibit 1. The question that begins there and the
2 answers that occupies Page 43. Can you review that.

3 Now, as I understand that testimony,
4 you were stating that beginning as of approximately
5 7:20 p.m., on the 23rd of August, a total of at least
6 30,000 ComEd customers were without service who had
7 been without service for at least 4 hours; is that
8 right?

9 A That's a conclusion I got, yes.

10 Q Okay. But prior to 7:20, at say 7:15,
11 there were not a total of 30,000 customers that had
12 been without service for at least 4 hours prior?

13 A Correct, based on the information in your
14 Appendix A.

15 Q Now, the reason that at 7:20 there were
16 more than 30,000 customers who had been without
17 service for at least 4 hours and at 7:15 there were
18 not is because 4 hours earlier, between 3:15 and 3:20
19 the storm would have been causing customers --
20 additional customers to be interrupted; right?

21 A The parties that were out for 4 hours were
22 out at least before 3:20.

1 Q But the number jumped from 7:15 to 7:20.
2 We, therefore, know that 4 hours earlier the storm
3 caused enough interruptions to get that threshold of
4 30,000?
5 A Right.
6 Q And at the same time the storm was causing
7 interruptions ComEd was restoring customers; right?
8 A I assume so, yes.
9 Q And the number of that changed from 7:15 to
10 7:20 then is a net number that reflects the increase
11 in the number of customers that were interrupted
12 4 hours earlier minus the number of customers that
13 ComEd restored in that 5-minute period; right?
14 A That is correct.
15 Q Now, in determining whether that
16 customer -- whether that increment of customers was
17 out for 4 hours, you looked at the beginning time and
18 the ending time of the interruption affecting that
19 particular customer or customers; right?
20 A Correct.
21 Q You didn't look at the -- treat the
22 beginning time as being the first moment that any

1 customers was interrupted as a result of the storm;
2 right?

3 A I looked at the beginning time that was
4 reported in Appendix A.

5 Q And in the same respect you treated the
6 restoration time as the time that that customer had
7 its service restored, not the time when the last
8 customer affected by the storm was restored; correct?

9 A Right.

10 Q Are you familiar with Part 411 of the
11 Commission's regulations?

12 A Yes.

13 Q If I get too detailed, tell me; and I can
14 provide you with a copy of the regulations. And if I
15 exceed your understanding, please tell me. I think
16 these are pretty direct questions.

17 For purpose of Part 411, ComEd and
18 other utilities are required to separately tract and
19 record each individual interruption caused by a storm
20 system like this; right?

21 MR. LANNON: Your Honor, I'm going to object as
22 beyond the scope of his testimony.

1 MR. RIPPIE: Well, Mr. Linkenback gives an
2 opinion in his testimony about how the 30,000
3 customers should be measured. And the sole purposes
4 of this line of questions that I'm beginning now --
5 which is I think five questions -- is to determine
6 whether that is consistent with the way interruptions
7 are measured under other provisions of the
8 Commission's regulations. I think that's fair cross.

9 MR. LANNON: Mr. Linkenback doesn't reference
10 Part --

11 MR. RIPPIE: That's right. He does not. We
12 don't disagree about that. The purpose of my cross
13 is to determine whether what he does say here is
14 consistent with other provisions of the Commission's
15 regulations. I think that's fair.

16 JUDGE DOLAN: I'll overrule the objection.

17 BY MR. RIPPIE:

18 Q Under Part 411 ComEd and other electric
19 utilities are required to track separately and record
20 each individual interruption caused by a storm system
21 like this; is that right?

22 A That's correct.

1 Q And there are cause codes identified in the
2 Appendix to the part that the utilities are required
3 to use in order to classify those interruptions; is
4 correct?

5 A That's correct.

6 Q And there is a category of cause codes for
7 weather-related events, which are then broken down
8 into subcauses such as lightning, wind, and tree
9 contact?

10 A There is a cause coding. I can't tell you
11 how many subsections there are.

12 Q I don't want to confuse you at all or in
13 any way be unfair.

14 A Yeah, there is an interruption code
15 description. I don't think the utilities are
16 reported on the subcodes.

17 Q It defines the interruption in terms of
18 various subcauses which are broken down and turned
19 into lightning, wind, et cetera; is that correct?

20 A Correct.

21 Q Under Part 411 the utility records a start
22 time and end time for those interruptions. Under

1 part 411, I believe .110, that much as your testimony
2 here is the starting point and the ending point for a
3 particular customer or group of customers'
4 experiences; right?

5 A That's correct.

6 Q The start time is not the start time of the
7 first interruption caused by the storm, and the end
8 time is not the restore time of the last customer,
9 it's the start and end time of the interruptions of
10 any particular customer experiences?

11 A Correct.

12 Q Okay. Are you familiar with any rules,
13 regulation, or industry standard under which ComEd
14 would treat all of the outages caused by the
15 August 23rd storm system as a single interruption?

16 MR. LANNON: Your Honor, I would assert another
17 objection. I believe that calls for a legal
18 conclusion.

19 MR. RIPPIE: I'll withdraw the question and
20 revise it.

21 BY MR. RIPPIE:

22 Q I'm not asking you to interpret any

1 statute. I'm asking you to answer this question
2 solely in terms of your experience as an engineer
3 both in the regulatory environment and in the utility
4 environment and how utilities report such things.

5 With that caveat, are you aware of any
6 rule, regulation, or industry standard under which
7 ComEd would treat all interruptions that resulted --
8 or the outages that resulted from August 23rd storm
9 system as being a single interruption?

10 MR. LANNON: Your Honor, I'm going to object
11 one more time. I don't think the record contains any
12 basis that -- Mr. Linkenback hasn't testified to
13 other rules, regulations here at the Commission.
14 There is nothing in the record that would indicate he
15 would be familiar with all those other rules and
16 regulations.

17 MR. RIPPIE: Your Honor, he's perfectly able to
18 answer that he doesn't know if that's the correct
19 answer. I'm simply asking him if he's aware of them.

20 JUDGE DOLAN: I'll overrule.

21 THE WITNESS: I'm not aware of any.

22 BY MR. RIPPIE:

1 Q When was the last time you had -- for the
2 sake of discussion, we'll use an example.

3 When was the last time you had an
4 interruption at your house?

5 A It was last year, last summer.

6 Q You're not a ComEd customer, were you?

7 MR. LANNON: Last week for me.

8 MR. RIPPIE: That would be a different
9 petition.

10 BY MR. RIPPIE:

11 Q How do you know when that interruption
12 began, Mr. Linkenback?

13 A Well, if I'm home, I know because of
14 firsthand. If I'm not home, I would only know when I
15 do get home.

16 Q But regardless, the interruption begins
17 when you lose service?

18 A Yes.

19 Q It ends when your utility restores service
20 to you; correct?

21 A Correct.

22 Q It doesn't start or end when someone who

1 lives in Decatur is either taken out of service or
2 restored, does it?

3 A No, it does not.

4 Q And that's because an interruption in
5 Decatur is different than the interruption that
6 affects your house; right?

7 A It doesn't affect my interruption; correct.

8 Q And that's true even if it's the same storm
9 system that hit Decatur that hits your house;
10 correct?

11 A Correct.

12 MR. RIPPPIE: That's all the questions I have.
13 Thank you.

14 JUDGE DOLAN: Any redirect?

15 MR. LANNON: No.

16 MR. RIPPPIE: Your Honor, we can begin now. But
17 my suggestion is actually why don't we get the
18 formalities of entering the testimony into the record
19 done now and break for lunch and start cross.

20 JUDGE DOLAN: Okay. That would be fine.

21 MR. RIPPPIE: The company's next witness is Carl
22 Segneri.

1 CARL L. SEGNERI,
2 called as a witness herein, having been first duly
3 sworn, was examined and testified as follows:
4 DIRECT EXAMINATION
5 BY
6 MR. RIPPKE:
7 Q Mr. Segneri, spell your name for the court
8 reporter.
9 A Carl, C-a-r-l, L, Segneri, S-e-g-n-e-r-i,
10 Junior.
11 Q Mr. Segneri, by whom are you currently
12 employed?
13 A Exelon Corporation.
14 Q And what is your current position?
15 A I'm the vice president of utility governess
16 and quality assurance.
17 Q Mr. Segneri, did you cause direct and
18 rebuttal testimony to be prepared by you or under
19 your direction and control for the submission -- for
20 submission to the Illinois Commerce Commission in
21 this docket?
22 A Yes.

1 Q Are those document respectively marked
2 Commonwealth Edison Exhibit 1.0, I gather, with the
3 exhibits thereto in Commonwealth Edison 2.0 together
4 with the attachments thereto?

5 A Yes.

6 Q Now, Mr. Segneri who is your employer and
7 what was your title at the time that those documents
8 were prepared?

9 A When these were prepared and submitted, I
10 was working for Commonwealth Edison as vice president
11 of quality assurance.

12 Q And when did you accept your new position?

13 A June of this year.

14 Q Other than the change in your positions, do
15 you have any additions or corrections to make to
16 ComEd Exhibit 1.0 or ComEd Exhibit 2.0 or their
17 respective attachments?

18 A I would have one change. There was an
19 omission where I referenced the testimony of Steven
20 Cress and did not indicate Dr. Sammy Krishnasamy. I
21 did not indicate his name, that they were both
22 together.

1 Q I believe the on Page 2 of Exhibit 2.0,
2 corrected, and the Footnote 2 on Page 4; is that
3 correct?

4 A Yes.

5 Q Other than adding Dr. Krishnasamy's name to
6 the description of that testimony, do you have any
7 other additions or corrections to make to ComEd
8 Exhibit 1 and ComEd Exhibit 2; correct?

9 A No, do I not.

10 Q If I were to ask you the same questions
11 that appear in Commonwealth Edison Exhibit No. 1 and
12 ComEd Exhibit No. 2 corrected with those caveats,
13 would you give the same answers?

14 A Yes.

15 MR. RIPPIE: Your Honor, I have no other
16 questions and offer into evidence ComEd Exhibit 1.0
17 together with Exhibits 1.01 and 1.02 and Commonwealth
18 Edison Exhibit 2.0, corrected.

19 JUDGE DOLAN: Any objection.

20 MR. LANNON: None from staff.

21 MR. MOSSOS: Purpose no.

22 JUDGE DOLAN: ComEd Exhibit 1.0 along with

1 Exhibit 1.01 and 1.02 will be admitted into the
2 record, and ComEd Exhibit 2.0 corrected will also be
3 admitted into the record.

4 (Whereupon, ComEd Exhibit
5 Nos. 1.0, 1.01, 1.02 and ComEd
6 Exhibit 2.0 were admitted into
7 evidence.)

8 MR. RIPPIE: Your Honor, I also note that
9 Mr. Segneri is the verifier of Commonwealth Edison's
10 verified petition. He adopts the factual statements
11 made in that petition in his testimony. With the
12 understanding that it is being moved into evidence
13 solely for the factual statements made therein and
14 not for any legal conclusions stated, I will also
15 offer into evidence ComEd's verified petition.

16 JUDGE DOLAN: Any objections.

17 MR. MOSSOS: None.

18 MR. FOSCO: No.

19 JUDGE DOLAN: ComEd's verified petition will
20 also be admitted into the record.

21

22

1 (Whereupon, ComEd's verified
2 Petition was admitted into
3 evidence.)

4 JUDGE DOLAN: On that note, are we going to
5 then admitted Staff's verified response and AG's
6 verified response into the record?

7 MR. RIPPIE: I'm not sure they were verified.

8 JUDGE DOLAN: It just says "response."

9 MR. FOSCO: We had the separate testimony on
10 Mr. Linkenback.

11 MR. RIPPIE: That was our subsequent responses
12 too, your Honor. It was only the initial petition.

13 JUDGE DOLAN: Okay. Never mind on that. Then
14 ComEd verified petition will be admitted into the
15 record.

16 And with that -- well since we have
17 time how about we take a lunch till 12:30.

18 (Whereupon, a recess was taken.)

19 JUDGE DOLAN: I think we ended introducing all
20 the exhibits into the record. And we're ready for
21 cross-examination.

22 MR. FOSCO: Your Honor, Staff is ready to

1 proceed.

2 CROSS-EXAMINATION

3 BY

4 MR. FOSCO:

5 Q Good afternoon, Mr. Segneri. My name is
6 Carmen Fosco. I'm one of the attorneys representing
7 staff. I have a few questions for you.

8 Referring to Attachment A to the
9 petition, you're familiar with that document;
10 correct?

11 A Yes.

12 Q Okay. And there was also another version
13 of that document produced in response to Staff Data
14 Requisition OGC 1.01; correct?

15 A Yes.

16 Q And those documents are basically the same
17 except for the updating of some trailing information?

18 A I think it had some columns, yes.

19 Q And one of the columns in both of those
20 documents is referred to as an outage ID?

21 A Yes.

22 Q And in the attachment to the petition it

1 seems to me that where there is a common outage I.D.
2 there's just blanks; is that correct?

3 A If you have it, it would probably be best
4 for me to see it. I think I know what you're talking
5 about, but I want to make sure.

6 Q So, for instance, if you just refer to Page
7 1 of 94 of that document, and if you look towards the
8 bottom there's a couple of blanks under outage I.D.
9 and start time.

10 A Okay. Yes.

11 Q And does that simply mean that wherever
12 there's a blank that the information that appears
13 above the blank applies -- it's just different
14 segments of the same outage?

15 A Yes, that would be correct.

16 Q And then in the -- I believe in the --
17 although I don't have copies yet because it's pretty
18 long.

19 But I believe in the response to
20 the -- in the electronic version of the spreadsheet
21 which was provided I think there were the same outage
22 I.D. would appear more than once?

1 A Filled in the blank, yes.

2 Q Was there basically a formatting
3 presentation for the attachment, basically the outage
4 I.D. that was the same so that you could see it's one
5 outage?

6 A I think because of this it's a direct
7 extraction from -- this would have been a direct
8 extraction from our outage system which would have
9 just had the one, that's why you have the blank. The
10 second one is someone that manually went in there and
11 pulled the segment. I'm pretty sure that's how that
12 happened.

13 Q And the approximately 4300 outages that you
14 refer to in the petition, however that's defined it's
15 counted by looking for separate outage IDs; is that
16 correct?

17 A Yes.

18 Q So there are approximately 4300 separate
19 outage IDs?

20 A That would be correct.

21 Q Can you give me a general overview -- you
22 referred to that report coming from your interruption

1 system?

2 A The outage management system. That's the
3 database that captures the outages.

4 Q And that's the same database that the
5 company uses for reporting outages under the
6 Commission's rules reporting individual outages?

7 A Yes.

8 Q And was any change made between how the
9 company typically reports an outage and the outages
10 that were reported with this petition?

11 A No. The outage reporting would be
12 consistent with what we've been doing.

13 Q Okay. Can you describe the process that's
14 used to gather that data. In other words, generally
15 when outages happen, do people out in the field
16 record some sort of information and transmit it?
17 Could you just walk us through that process at a high
18 level.

19 A Sure. We'll talk about the storm
20 scenario --

21 Q That's fine.

22 A -- which is what we're talking about now.

1 So I'll just take -- a customer would
2 call in or a number of customers would call in and
3 say they're out of service, and our computer system
4 is geographically mapped. So if it notes that these
5 3 customers reported an outage, our system lumps them
6 together because they're electrically connected. And
7 it said, Well, the next electric device up from
8 them -- let's say the fuse -- there's a fuse out of
9 service.

10 So the electronic data system would
11 say there's a fuse outage in this location. The
12 dispatcher who is looking at the screen would see
13 that. He would send a crew or an individual trouble
14 response person and say, We've got a device outage at
15 this location. So that person would go out and
16 assess what the condition is. So that response
17 individual, who's generally a construction crew or an
18 individual trouble responder -- they're all what we
19 would consider overhead linemen-type persons -- they
20 would assess what's going on, they would determine
21 the cause basically, and they would report back to
22 the dispatcher. And they would say, I have a tree

1 limb on the wire, I have a tree that blew in, it's
2 going to take me about an hour to restore it.

3 So the dispatcher would then enter the
4 cause, fill in the cause code --

5 Q If I can stop you there?

6 A Sure.

7 Q Is the cause code the equipment involved?

8 A I believe there's different entries.

9 There's a cause code entry, and there's equipment
10 affected, that series of information that that field
11 person would translate to the dispatcher.

12 Q And to back up a little bit, you indicated
13 that ComEd would receive notice of an outage when one
14 or more customers called in?

15 A Correct.

16 Q Do you use the call-in time as the start
17 time for the outage?

18 A Yes?

19 Q It may have been slightly before, but
20 that's the best time you have to know -- that's when
21 you became aware of the outage, the company?

22 A That's correct. There's generally two

1 ways. It can either be a customer call; or if it's
2 an outage that affects an entire circuit, which would
3 be the circuit breaker at a substation, then we don't
4 need a customer call because our computer systems
5 know that that's out, the Supervisory Control And
6 Data Acquisition, SCADA is the acronym.

7 Q Thank you.

8 Okay. And then I think we stopped in
9 with them identifying the cause of the outage. Then
10 let's the next step is they proceed to repair the
11 interruption?

12 A That's correct.

13 Q Then what happens when that's completed?

14 A They'll report back to the dispatcher that
15 it's completed. The dispatcher then will enter the
16 time of restoration, whatever the other column
17 entry -- what was done. I replaced a fuse. I put up
18 a wire. They would note whatever the repair
19 entailed. And then, in general, our process then
20 would be we initiated an automated call back to any
21 customers that called us to ensure that they were
22 back in service. So that's how the whole process

1 works.

2 Q And then that's when the restore time gets
3 recorded?

4 A When the dispatcher gets that notification
5 from the field, then they would say yes they restored
6 it at whatever time.

7 Q And in Attachment A there was not a cause
8 field provided. Were all of the causes for what's in
9 Attachment A causes that fall under the weather
10 category?

11 A No, I don't think every cause
12 independent -- because during that storm there were
13 more than weather. There was tree, there was public
14 damages, as we saw before.

15 Q So it did not necessarily reflect the
16 explicit weather codes, but did every outage relate
17 to the storm in some way?

18 A You're asking me to speculate for every one
19 of the 4300. The great majority of them were all
20 tied into different events from the storm, yes.

21 Q Okay. And under the Restoration
22 Remediation column of Exhibit A it lists specific

1 line items. Are those complete listings of
2 everything that was repaired, like if it says
3 "replaced fuse," would there potentially be other --
4 is that reflective of everything that was done?

5 A In that particular column it wouldn't
6 necessarily be all inclusive, it would be whatever
7 the significant --

8 Q Would it be the last big event that
9 restored power?

10 A It would be the dominating -- the most
11 contributing repair that you did. So, in other
12 words, I think if you say if I had a wire -- you've
13 got a crossarm and there's an insulator that holds up
14 the wire and maybe the insulator was broken and I had
15 to replace the wire in the insulator, it might only
16 say, I put up the wire. It wouldn't give the details
17 of the insulator, as an example. I think that's what
18 you're asking.

19 Q For instance, if there was one that said
20 Phase wire all voltages was the equipment involved
21 and then resetting a circuit breaker and substation
22 was the remediation step, there may have been other

1 steps involved such as -- or in that case no?

2 A Generally not. I wouldn't think so because
3 particular, as we noted, how we take a larger, say,
4 outage and break it into restoration pieces, the
5 restoration pieces are usually pretty discrete. So,
6 in other words, I replace the fuse and got this
7 section back up. I don't know if that answers your
8 question.

9 MR. FOSCO: Your Honor, may we present an
10 exhibit?

11 JUDGE DOLAN: Sure.

12 BY MR. FOSCO:

13 Q I've shown you what's been marked as ICC
14 Staff Cross-Exhibit 1. I will represent to you that
15 this is a listing of the equipment involved codes and
16 the related number of customers interrupted for each
17 code based on the response to ICC Staff Data Request
18 OGC 1.01. And the left column is just a number
19 showing that there were 55 different codes entered,
20 or words. And the next column is what each of those
21 codes or descriptions were. The next column is the
22 number of customers, and the next column is the

1 percentage of the total customers interrupted.

2 And then on the right column it sort
3 of segregated the top seven codes which all amounted
4 to more than 1 percent of the customers interrupted
5 and that was less than 1 percent of the customers
6 interrupted.

7 Can you accept, subject to check, that
8 this document accurately reflects the codes and the
9 number of customers interrupted in response to Staff
10 Data OGC 1.01, which is the same as Attachment A to
11 the petition?

12 A Yeah, subject to verification, it does look
13 like what would be that kind information. Yes.

14 Q Okay. And we see that the number one cause
15 of outages was phase wire all voltages. If you could
16 actually go through top seven and describe for us
17 what those are or what they would generally
18 encompass.

19 A Some of them are relatively
20 self-explanatory. Phase wire would be the wire
21 itself between poles. So you've got poles and wires
22 between the poles. So the repair would be to either

1 replace the section of wire or re-splice two pieces
2 of wire together that had fallen down.

3 Q So it would have been some piece of wire
4 that was damaged in some way?

5 A Correct. This gives you the equipment
6 involved, not necessarily why it was damaged.

7 Q So it could be winds, it could be a tree?

8 A It could be lightning, it could be tree, it
9 could be a car hitting a pole, it could be all of
10 those things. So that's phase wire.

11 Is that okay?

12 Q Sure.

13 A And the second one is the substation
14 breaker. So that would be very comparable to your
15 circuit breaker in your distribution panel at home.
16 At our substation, it's a larger circuit breaker that
17 is the opening and closing device that energizes what
18 we would call an entire feeder. The whole pole line
19 is connected to a circuit breaker. So if the main
20 trunk of that line was damaged, the circuit breaker
21 would be the operating device that would open and
22 interrupt that circuit.

1 Q So an event that might trick the circuit
2 breaker would be a short that occurs from a broken
3 line or even a lightning strike?

4 A All of the above, yes.

5 Q And other items as well?

6 A Yes.

7 And then --

8 Q Would a substation breaker normally
9 indicate some kind of fault on the main line as
10 opposed to a branch or could it be both?

11 A Generally, the main line. The next one
12 we'll describe why that's the case.

13 So a feeder -- imagine it's a pole
14 line that goes out to the neighborhood, and then it
15 has to go into backyards and feed individual homes.
16 So in order to be more reliable you've got the main
17 trunk and then there's fingers that come off taps
18 that go into different streets or different
19 neighborhoods. And those individual --

20 MR. RIPPPIE: If I may, I notice you're using
21 your hands. We have a pad if you want to draw --

22 MR. LINKENBACK: Am I descriptive enough?

1 JUDGE DOLAN: I'm okay.

2 THE WITNESS: So these branches are protected
3 with a fuse. And the reason for that is if there is
4 damage or a tree down that tap you want to open the
5 fuse and then you would only impact the customers on
6 that tap. And the remaining feeder -- the rest of
7 the main line would stay in service.

8 So the fuse is a device that all
9 utilities use to break up the feeder. It's
10 downstream device to sectionalize, if you will, a
11 larger feeder.

12 BY MR. FOSCO:

13 Q And it's a tap off of the main line so that
14 the rest of the main line would stay energized --

15 A That's correct.

16 Q -- if it was to become open?

17 A Right. That's correct.

18 Q Okay. So when we see equipment involved as
19 fuse, we know for 34 roughly 35,000 of the customers
20 that experienced interruption it was because of some
21 event on a tap off of the main line?

22 A That's correct.

1 Q And then the next one, I guess, is cable.
2 Does that refer to underground wire?

3 A Yes.

4 So it's the underground wire, and that
5 can be on a main line or it can be on a tap beyond a
6 fuse.

7 Q What sorts of things caused damage to
8 underground cable during a storm? What kind of
9 damage did that they experience?

10 A Generally -- multiple things, but generally
11 two main ones, I would say: lightning damage can
12 traverse either through the ground and hit an
13 overhead system and then reach its low point in an
14 underground cable and damage the cable or heavy
15 flooding or heaving movement of the cable because a
16 lot of water or moisture. Those would be the two
17 main reasons that you would have cables failing
18 during a storm.

19 Q Okay. A pole, I think that's
20 self-explanatory, the pole that broke or --

21 A Right.

22 Q -- no longer working?

1 A Correct.

2 And then a switch, a load break,
3 that's just a type of device that we would have. So
4 to go back to the fuse discussion where you have a
5 tap, some of our taps do not have necessarily a fuse;
6 but there is a disconnect switch. It's an isolating
7 switch that an operator can open so that you can
8 isolate. The "load break" means when there's current
9 on it or when it's energized, I have the ability to
10 open it. And that's generally for operating
11 purposes.

12 So what that indicates is during the
13 storm there were a number of those devices that were
14 damaged and had to be replaced.

15 Q Okay. They caused an open circuit
16 condition?

17 A Right. It would be very analogous to the
18 fuse. I think that's the best way to describe it.

19 Q Okay. And the recloser line, is that just
20 a different piece of equipment similar to the switch
21 load break.

22 A It is, except those -- it's comparable.

1 Realize that a reliable system, you have this long
2 feeder and the more protection devices you could put
3 in it to isolate a problem the less customers.

4 Q The less customers affected?

5 A The less customers affected.

6 So the reclosers is actually a circuit
7 breaker that's in the middle of the feeder that opens
8 and closes the main line. So, in other words, I
9 could maybe break a feeder in half. So if the
10 problem's at the back half, the recloser would open
11 and all of the customers on the front end between the
12 substation and the recloser would stay in service.
13 So this recloser is a pole-mounted device.

14 Q There were reliable devices that allows you
15 to keep half a line?

16 A Yes.

17 Q But they can also be damaged during a
18 storage?

19 A Absolutely.

20 Q And then they can cause an outage when
21 they're directly impacted by a storm?

22 A Yes.

1 Q Of the seven items that we've discussed
2 which accounted for roughly 91, 92 percent of the
3 customers interrupted, are those consistent with
4 damage from a storm?

5 A Those are very common items. Those are
6 generally the most common items in a storm.

7 Q Are there any in the rest of the list that
8 are not typical of the storm? There's a -- I'm
9 sorry. It's not here. It's in my next list.

10 Are there any in there that would not
11 normally be associated with a storm?

12 A No. In particular, in the numbers --
13 some of those numbers are so small. Our system has
14 5,000 circuits in it. So there's a lot of equipment
15 out there. So this is not abnormal to have these
16 kind of equipment impacted.

17 Q Mr. Segneri, I've now shown you a document
18 that's been marked for identification as ICC Staff
19 Cross-Exhibit 2. And I will represent to you this is
20 very similar to the last exhibit, only it is based
21 upon the restoration remediation column.

22 Would you accept, subject -- it's the

1 same thing with a listing of the number, the code
2 description, the number of customers interrupted, and
3 the relative percentages. Can you accept that,
4 subject to check?

5 A Yes, I can accept it.

6 Q Okay. And I follow the same convention --
7 if an item affected more than 1 percent of the
8 customers that were interrupted, I put just a
9 demarcation there so we can see.

10 And, as you can see, there's 11 codes
11 for restoration remediation. And I'm wondering if
12 you could, again, kind of generally go through what
13 those entail in the context of a storm?

14 A So I'll take it one at a time. Repaired
15 would be that I did not have to replace a piece of
16 equipment. That would be like a wire that got hit by
17 lightning and fell down. I'm able to put up and
18 splice it together. I'm repairing the equipment. So
19 the equipment isn't damage so severely that they
20 can't just repair it on site and put it back in
21 service. So that's what repair would be.

22 Temporary switching that was alluded

1 to. I can expand on that a little bit. When you're
2 in a storm there's an awful lot of damage; right?
3 And my goal in the early going is to restore as many
4 customers as quickly as possible. So we have enough
5 redundancy in our system so there would be a circuit
6 and another circuit that's nearby.

7 If I have damage on the front half
8 this circuit, what I can do is isolate it and close
9 one of those load break switches and tie to an
10 adjacent feeder. So that is a real common and
11 probably one of the -- as you can see, it's No. 2 --
12 that's one of the most common repairs that I do for
13 restoration.

14 Q What process would ComEd go through to
15 decide whether it's going to repair a particular type
16 of damage versus we're going to make the decision to
17 tie to another circuit to restore service to some or
18 all customers?

19 A It could be done in a couple ways: One, is
20 the individual trouble response person on site
21 talking with the dispatcher makes that determination.
22 He'll look at it and say, I can repair this broken

1 pole in 2 hours or I can -- I see on the map there's
2 a switch down there I can get it in 20 minutes. I'm
3 one of the people that's an emergency response
4 director who leads the restoration effort.

5 In the early part of the storm we'll
6 declare a restoration philosophy, and we call it, We
7 are in the cut-and-run phase, which means I cut
8 everything I can in the clear and switch and go to
9 the next, that way I get a lot more customers
10 restored faster. So that's how that's determined.

11 Q Is that the basic criteria, the speed and
12 number of customers that can be restored?

13 A That's the main objective early on, yes.

14 Q Does it indicate anything about what sort
15 of damage there is? I mean, there could still be
16 phase wire damage...?

17 A Oh, absolutely. So if you look -- that's
18 why you have those multiple lines in a given outage.
19 So it will say, I did switching -- temporary
20 switching, and I restored 80 percent of the
21 customers. You would still see in that outage
22 ticket, Phase wire down, pole down, and then give a

1 location.

2 So then as you get farther into the
3 event, the dispatcher would look and say, I've still
4 got 30 customers out. So he knows -- he's got the
5 intelligence in the ticket that he knows I have to
6 bring a pole or I have to bring wire or something
7 like that.

8 I'll keep going down.

9 Q Sure.

10 A Enclose the substation breaker. So, in
11 other words, in order to restore the customers I did
12 is enclose the breaker. That is not uncommon,
13 particularly when we have 50,000 strokes of
14 lightning. So you can have a very temporary event
15 where a lightning hit a line, the circuit breaker
16 opened, but there really isn't any other residual
17 damage.

18 So the troubleman would patrol the
19 line; and he doesn't see anything. So the dispatcher
20 closes the circuit breaker back in, and all the
21 customer are restored.

22 Q So when we see that code restoration it's

1 likely that's all that was needed to restore services
2 to those customers?

3 A Yeah. Obviously, there's exceptions, but
4 there would be the predominant case, yes.

5 A tree removed I think is pretty
6 obvious. You had a tree leaning into a wire and you
7 removed it, and I was able to restore the customers
8 after I removed the tree.

9 Replaced fuse. Lightning hit a tap
10 section and it blew the fuse, and I just have to
11 replace the fuse, as opposed to a tree hit the
12 section and the wire came down and it blew the fuse,
13 the restoration remediation is really replace wire.
14 In this case, there was no real damage other than the
15 fuse blew. So I just had to replace the fuse.

16 Q Is 5 the same as 9, own they're just
17 different words, close fuse?

18 A Yes -- oh, well, in some cases I guess you
19 had the -- I guess that's the terminology where the
20 fuse had just opened and it wasn't damaged. But you
21 have to take the fuse link out and put a new fuse
22 link in versus just closing the fuse. There's

1 probably not a lot of distinction between those two
2 to tell you the truth.

3 Q Okay. 6 is...?

4 A Replace overhead material, and that would
5 be whether I had to replace a crossarm or a section
6 of wire.

7 Q Okay. And that's different from one in
8 that you weren't able to repair it, you had to
9 replace it actually?

10 A Put a new piece of equipment in, yes.

11 Close the recloser line, that's
12 comparable to the substation breaker. The recloser
13 open, it's probably an intermittent issue, a very
14 temporary issue. And then I was able to close the
15 recloser.

16 Close a switch or disconnect. The
17 same kind of thing. I have an adjacent disconnect
18 that ties me to another source and I close it, and
19 that's what restored the customers.

20 Closed the circuit switcher. A
21 circuit switcher for our purposes is -- they're not
22 much different than a recloser. It's just another

1 type of interrupting device.

2 And then disconnect overhead
3 material --

4 Q Is that where lightning arrester is damaged
5 and maybe you just bypass it or something like that?

6 A Exactly the kind of thing it would be.
7 It's a damaged piece of equipment that either doesn't
8 affect any customers or it's a couple customers. So
9 I can just get them out of the way and then I can
10 restore the service.

11 Q Okay. Actually, just to back up because I
12 believe you and I have both been using the terms
13 "open" and "closed," can you explain for the
14 record -- I think I understand what it means, that
15 when a circuit's open electricity can't flow -- but
16 can you explain how that term works.

17 A I think you just did. If I open a device,
18 then I'm interrupting the flow of electricity.
19 Therefore --

20 Q It's sort of counter-intuitive. Usually
21 when something is open we think you can go through.

22 A Right. It's the opposite of water with a

1 valve. You open a valve to let the water flow. You
2 close a valve to shut it off. And the electricity is
3 the opposite.

4 Q When the circuit's open, the electricity is
5 not flowing; and when it's closed, the electricity
6 is?

7 A Correct.

8 Q The same question I had for the equipment
9 involved. Are these codes for restoration
10 remediation in items 1 through 11 on this list? Are
11 those all consistent with restorations that happen in
12 a storm?

13 A Very.

14 Q Is there anything in the rest of the list
15 that would not typically be associated with a storm
16 and may be other that are counted for 25,000 customer
17 outages? And I might bring your attention to --
18 maybe it's just a strange code, but it's install wild
19 life protection.

20 A What number is that?

21 Q 36. Maybe you can give up those 3.

22 A In their restoration they might have found

1 damage -- that the wildlife protection was damaged,
2 so they put a new one on.

3 Q Was there some other damage maybe likely
4 associated with that?

5 A Possibly. With the 3 out of 4,000 I don't
6 know that that really amounts to much. It does look
7 like a little misplaced, but you can see how that
8 might have happened.

9 Q Okay. Other than that, are there any other
10 type --

11 A The others were consistent.

12 Q Okay. How does ComEd design or determine a
13 different outage I.D. to a particular outage? I see
14 a few things. It seems it's based on a start time.
15 In other words, they have to be on the same circuit
16 and the same start time? Is that at least two of the
17 criteria?

18 A There's multiple criteria. There would be
19 multiple criteria. The two you mentioned are
20 certainly leading causes that in the same area
21 electrically connected. But even on a given feeder
22 that I've talked about where you could have many

1 taps, you know, multiple fuse taps off of the main
2 line, if one feeder has 3 different taps damaged, so
3 3 different fuses blew -- this tap was damaged and
4 the fuse blew and down the street another fuse
5 blew -- those would be separate items with separate
6 outages. Because you would -- they're really based
7 on proximity, when they happened, what you would need
8 to do to restore. They could be from different
9 causes.

10 So they're really distinct events that
11 just happen to be generally close to each other, but
12 they're separate.

13 Q Mr. Segneri, on the Commission's Web site
14 are copies of ComEd's self-assessment reports -- of
15 course, there's not a cover page. I couldn't find a
16 cover page for some reason. And this is portions of
17 the reliability self-assessment report for 2006. And
18 I included a table of contents, the introduction
19 section and part of Part 2.

20 And do you recognize the portions of
21 the document?

22 A Yes, I've seen these document. Yes.

1 Q I'd like you to refer -- actually, my
2 questions all or mostly relate to the very last page
3 of Part 2. And this refers to interruptions and
4 power fluctuations, and it refers to how the company
5 keeps records.

6 Is this referring to the same outage
7 recording system that we've been discussing in
8 general here this afternoon?

9 A Yes, it would be the same.

10 Q Okay. This also indicates that -- I think
11 this explains, if you will, how single outages are
12 segmented because it indicates on the paragraph on
13 the right-hand side -- well, it explains that the
14 starting period for the outages when ComEd was
15 notified about -- or became aware of the outages
16 which we already discussed. And it says, All
17 customers are affected by interruptions that were
18 restored by the same restoration effort at the same
19 time -- one duration is shown for the interruption.
20 And then it says in case in which customers affected
21 by interruption were restored to a multiple
22 restoration efforts the duration of each restoration

1 effort is shown along with the numbers of customers
2 restored by each such effort?

3 A Yes.

4 Q And that is what we see in Attachment A and
5 the DR response; correct?

6 A Yes.

7 Q It'll have the same outage I.D. but will
8 have different restore time.

9 A Yes.

10 Q And then it says, In addition where
11 interruption affected more than one ward or town,
12 information on duration, is clearly divided by those
13 wards or towns. So I believe if we look at
14 Attachment A, we'll see that even though it might
15 have the same restoration time, reported a separate
16 line for each ward or town affected.

17 Does that sound correct?

18 A I'm not sure if I understood the question.

19 Q Right. If I understand the sentence here
20 that says, Where and interruption affected more than
21 one ward or town, information on durations is clearly
22 divided by those wards or towns.

1 And what I understand that means -- if
2 we look at Attachment A, we'll see a single outage
3 I.D. We might even see the same restoration time --
4 the same start -- but we'll have different lines
5 because you'll isolate the restorations that were in
6 a particular town?

7 A I don't think the outage line would be
8 split up like that, but inside the data. In other
9 words -- if I think I'm understanding your
10 question -- if the given outage was restored in two
11 separate steps, Step 1 restore all the customers,
12 half of the customers were in Ward 19 and half were
13 in Ward 20, you wouldn't necessarily see that in that
14 outage line, but as you dug into the individual
15 customer data you would find it.

16 Q Can I give you an example?

17 A Yeah.

18 Q Do you have Attachment A to the petition in
19 front of you still?

20 A Yes.

21 Q Can you find the outage I.D. 689625. It's
22 got a start time of 8:23:07 at 1506. The list is

1 ranged by outage start times. So...

2 MR. RIPPIE: If you don't mind, we can try and
3 search an electronic version and show it to him on
4 the screen.

5 MR. FOSCO: That's fine.

6 THE WITNESS: Okay. I can read that.

7 BY MR. FOSCO:

8 Q And if you are able to follow the
9 interruptions, there's -- I'm sorry. I don't have
10 the page in Appendix A. You'll see that it's got the
11 same -- a number of interruptions have the same start
12 and end time, but there are different segments on
13 this circuit. But for each restoration time there's
14 is towns like Streator, Dwight, Pontiac. It is
15 breaking it up by town.

16 A Yeah. I didn't see it that way before the
17 way it's depicted. Yes, because it looks like the
18 same outage was restored at the same time. And we
19 just put a bunch of different lines. It looks like
20 the distinction is town.

21 Q It does it by town and then by restoration
22 times because --

1 A Yes.

2 Q -- apparently you restored different
3 segments of the circuit?

4 A Correct.

5 Q And that's consistent with the document we
6 were just looking at?

7 A It is.

8 Q It seems to me that that explained what I
9 was saying.

10 And you agree?

11 A Yes, I agree.

12 Q There is a -- I had a reference, but I
13 don't have it right now. There's a reference in Part
14 411 to what constitutes an interruption.

15 Are you familiar with that?

16 A Yes.

17 Q And I don't have the definition in front of
18 me, but I believe it refers to involving a distinct
19 piece of equipment to relate those pieces if
20 equipment?

21 A Connected, interconnected. I can't
22 remember the exact words.

1 Q Is that the definition that's used to
2 define individual outages as it is in the Attachment
3 A?

4 A If your question is, is it defined as a
5 distinct outage in that time that it occurs and a
6 continuous piece of equipment -- I'll see if I can
7 find it.

8 Q Why don't I read the definition since your
9 counsel was so helpful to provide a copy of the rule.

10 A What page are you on?

11 Q It's the definition section.

12 A The term interruption.

13 Q It says, Interruption or outage, except as
14 used in Section 411.210, 411.220, means the failure
15 or operation of a single component or simultaneous
16 failure or operation of physical and directly
17 connected components of a jurisdictional entity's
18 transmission or distribution system that results in
19 electric service to one or more of its customers
20 being lost or being provided at less than 50 percent
21 of standard voltage for a period longer than 1 minute
22 in duration and require human intervention by the

1 jurisdictional entity to restore electric service.

2 A Yes.

3 Q Is that the definition that's been used to
4 categorize separate outages in Attachment A to the
5 petition?

6 A Yes. I would say that and common sense
7 also.

8 Q But if I wanted to understand how ComEd
9 came up with 43 separate outages, it's by applying
10 that definition; correct?

11 A Basically.

12 Q I mean, there are individual facts that we
13 could look at?

14 A Sure. This definition is consistent with
15 how we would categorize and quantify different
16 outages, yes.

17 Q Would you agree, Mr. Segneri, that any
18 outage that affects more than one customer affects
19 different customers?

20 A I want to make sure I understand. Repeat
21 that, please.

22 Q Does any outage that affects two or more

1 customers affect different customers as that terms is
2 used in your petition? I mean, there's a reference
3 in the petition in several places to outages
4 affecting different customers.

5 And my question is, would you agree
6 that any outage that affects two or more customers
7 affects different customers? That's sort of the
8 definition, isn't it?

9 A There' different contexts for the word
10 "different." So let's go back to what we were
11 talking about before, an individual interruption, a
12 fuse section or a tap section that might have 10
13 customers out of service, yes, those are 10 different
14 customers. But that being different than a whole
15 other fuse section, that's a different definition of
16 different.

17 Q Would it be fair to say that it's not so
18 much that they were different customer but customers
19 that had different causes of their outage? They're
20 all different customers, but you're sort of
21 categorizing them by the cause of the outage or the
22 particular equipment that caused the outage?

1 A So said that way -- said the way you just
2 asked the question, a tree that comes down that
3 affects 6 customers, I wouldn't say that it's 6
4 different customers it's an outage that affects 6
5 customers. That's one event. We go restore it.
6 When we do the restoration, all 6 of those customers
7 are restored.

8 Q Okay. And I was sort of troubled because
9 to me they were all different customers. And I was
10 having trouble understanding that statement.

11 I mean, you would agree that anytime
12 there's two or more it's different customers, but
13 you're using that in a slightly different way?

14 A Yeah. It depend on -- now, at the end of
15 the year when we're reporting how many different
16 customers got an outage, those 6 -- those 6 different
17 customers that experienced an outage, but they
18 happened to experience an outage due to the same
19 event.

20 Q And they could be counted again if they had
21 a different outage; right?

22 A At a different time, yes. Sure.

1 Q Do you use the terms "outage" and
2 "interruption" synonymously? Are those the same? Is
3 there any difference between an outage and an
4 interruption?

5 A In general, I think that's an
6 interchangable term, yes.

7 Q You may have answered this by covering
8 other topics, but how did you determine that the
9 outage in Appendix A were storm-related? Is it what
10 we discussed earlier in terms of the causes and
11 restoration meanings?

12 A Primarily because of the causes and what
13 was found on the restoration and the times that they
14 happened that were consistent with the weather front
15 that came through. Location, time, and causes would
16 be the basis for the conclusion that they're
17 storm-related.

18 Q Anything else that you can think of?

19 A Nothing I can think of offhand.

20 Q If a field rep went into the field at the
21 time of the storm and saw, for instance -- I'm making
22 this up. Let's say a transformer is leaking oil and

1 you can determine that that means that it wasn't hit
2 by lightning or something, would he report that as
3 non-storm related even though it happens at the same
4 time? Does it happen the service linemen will
5 occasionally come across particular outages that they
6 say, Well, this really wasn't caused by the storm?

7 A I mean, you're fabricating an event. That
8 could happen at the same time that I'm in a storm
9 window. So the outages that occur in that time
10 window we don't really just say that's a storm,
11 that's not a storm. They're just aggregated as
12 total.

13 I mean, on the grand scheme if there
14 were scenarios like you described, I mean their
15 numbers would be so small compared to this 600,000
16 customers. It really wouldn't count. But it was an
17 outage that a customer experienced, so it does get
18 captured. I mean, it absolutely does get captured in
19 our system. So it would be noted as an outage and
20 the duration and all the other data, what we had to
21 do to restore it.

22 Q Okay. Do you know the highest number of

1 customers that were affected by a single interruption
2 as ComEd has defined it during the storm?

3 A I don't know the exact number. It would
4 probably be 2,000/3,000. I mean it would be that
5 range. I'd have to pore through Appendix A.

6 Q Would you accept, subject to check, that
7 it's 6,386 for outage I.D. 689625?

8 A I will accept because we had a substation
9 bus outage or two in a couple substations. That
10 would be consistent with that kind of event.

11 Q And are there distribution circuits that
12 have that many customers?

13 A There are 34,000 volt lines that do have
14 that many customers on them, yes.

15 Q Okay. What's the largest distribution
16 circuit in terms of number of customers in a ComEd
17 system?

18 A I wouldn't know the exact number. It would
19 be around 9 or 10,000 and that's on 34,000 volt line.
20 It would be in that range.

21 Q And, to your knowledge, are there any
22 distribution circuits as opposed to transmission

1 circuits that serve 30,000 or more people?

2 A On an individual distribution circuit?

3 Q Yes.

4 A No, there are none.

5 MR. RIPPIE: Can I ask you a question? Do you

6 mean distribution and transmission in the colloquial

7 sense, or are you referring to how they are actually

8 functionalized (sic).

9 MR. FOSCO: I'm referring to how they're

10 actually functionalized; meaning --

11 BY MR. FOSCO:

12 Q Well, let's go over that a little bit.

13 Can you explain the difference between

14 a distribution and a transmission circuit, if

15 "circuit" is the right word. I'm not sure?

16 A Well, I guess by the way you're asking

17 it -- let's do a little bit of a primer on the

18 system, if that's okay?

19 Q Sure.

20 A A high vol- -- let's start with a high

21 voltage line, which could be referred to as a

22 transmission line. Let's just talk about a 66,000

1 volt or 138,000 volt line which could have connected
2 to it multiple substations, and then out of each of
3 those substations there are, you know 2 or 3, 30
4 individual feeders. So a 12,000 volt feeder or
5 34,000 volt line. So those individual feeders that
6 customers are directly connected to those lines --

7 Q And that's what I was referring to as a
8 distribution center, yeah.

9 A Right. Those you would have 6,000 up to
10 maybe 10,000 customers connected. But that high
11 voltage line --

12 Q Coming into a substation --

13 A -- that comes into the substation you could
14 say that serves all of those customers. So an
15 individual high voltage line can easily serve more
16 than 30,000 customers.

17 Q That's the distinction I was trying to
18 make.

19 A Yes. So it's not directly connected. But
20 an outage on that high voltage line would impact
21 possibly multiple substations which could be 30,000,
22 50,000 customers. That is possible.

1 Q Okay. And just so the record is clear, am
2 I correct that circuits that directly connect the
3 transformers that connect to customers' premises
4 those tend to be kind of a system 4 kilovolt, 12
5 kilovolt and 34 kilovolt and 69 sometimes?

6 A Rarely 69. 69, there would be customers
7 directly connected, but a very small number.

8 Q And then there would then be also 138 KV
9 lines and then maybe two voltages above that for both
10 power distributions of 345 and 500 kilovolt?

11 A 765 --

12 Q 765. Okay. And with the distinction that
13 we just made, if any piece of equipment on a
14 distribution circuit the 34 kilovolt and below is
15 damaged, it is basically physically impossible for
16 that to affect 30,000 or more customers by that piece
17 of equipment being damaged by itself; correct?

18 A By the individual 34 KV line that
19 component -- I don't know the scenario where 30,000
20 customers, but a component in a substation which
21 feeds 30,000 customers definitely a single failure or
22 single outage could affect 30,000 or more customers.

1 So there are definitely elements
2 within our system that a single failure or a single
3 outage would impact more than 30,000 customers.

4 Q Do you have Mr. Lanzalotta's testimony
5 available to you?

6 A I think so, yes.

7 Q He attached as AG Exhibit 1.5 the company's
8 response to Data Request AG 2.05.

9 A It's AG 1.5.

10 Q It's a two-page document.

11 A Okay. I found it.

12 Q And third data request, did you help
13 prepare this data request response or were you
14 possible for overseeing it?

15 A Let me look at it and see if I did it.

16 I know I reviewed this, yes.

17 Q And this data request basically asked the
18 company to identify components of ComEd's
19 transmission or distribution facilities whose failure
20 or malfunction could cause an outage to more than
21 30,000 customers; correct?

22 A Yes.

1 Q And it seems that this is a highly
2 technical response; but when I read this it's
3 saying -- and I think it's consistent with the
4 question and answers that you and I just engage in,
5 that basically this identifies that there were -- at
6 least in the areas affected by the storm there were 3
7 substations that were served by two-line transmission
8 lines where they could if one piece or component of
9 those was damaged could have taken out service to the
10 substation which would have -- or could affect 30,000
11 or more customers?

12 MR. RIPPIE: Again, I just need clarification.
13 You're using the phrase "transmission line". He has
14 not testified to -- do you mean 138 KV lines?

15 MR. FOSCO: Yes.

16 THE WITNESS: We can use that high voltage
17 distribution line.

18

19 BY MR. FOSCO:

20 Q And it's a line coming into the substation;
21 correct?

22 A Oh, yes.

1 Q And in this answer we're talking about
2 lines coming into substations being damaged, and then
3 damage to those facilities could affect 30,000 or
4 more customers; correct?

5 A That would be correct.

6 Q And typically -- and the reason you only
7 identified 3 substations is because typically there's
8 redundancy into a substation where if one line were
9 damaged, the other line or lines could pick up the
10 load; correct?

11 A Yes, I believe the answer is we've -- we
12 designed redundancy into the system so that we don't
13 put ourselves in that situation.

14 Q And there's a few substations that have not
15 yet reached 30,000?

16 A And we don't have that redundancy. That's
17 correct.

18 Q I understand that it's ComEd's position
19 that there were separate interruptions associated
20 with the August 23rd storm front, but do you agree
21 with Mr. Linkenback's testimony that there were
22 4-hour windows where more than 30,000 customers were

1 interrupted started at around 7:20 p.m., on August
2 23rd, and continuing to roughly 2:00 p.m., on August
3 26th?

4 A I agree that there were increments with
5 more than 30,000 customers out, yes, due to separate
6 incidents.

7 Q And I think this is obvious from a question
8 we asked earlier; but in ComEd's view there can be a
9 single interruption that affects more than one
10 municipality?

11 A Oh, yes, very easily.

12 MR. FOSCO: Your Honor, the last item I would
13 deal with is I have a copy of the company's response
14 to Staff's Data Request OGC 1.01, which is the
15 updated outages. And we're passing out copies. If
16 they don't have any questions about it, I would
17 simply be moving for its admission.

18 MR. RIPPIE: No objection.

19 MR. FOSCO: Your Honor, that concludes our
20 questioning. And I would move for the admission of
21 ICC staff Cross-Exhibits 1 through 4.

22 JUDGE DOLAN: Any objection?

1 (No response.)

2 JUDGE DOLAN: ICC Staff Cross-Exhibits 1
3 through 3 will be admitted into the record.

4 (Whereupon, ICC Staff
5 Cross-Exhibit Nos. 1 through 4
6 were admitted into evidence.)

7 JUDGE DOLAN: Okay.

8 CROSS-EXAMINATION

9 BY

10 MR. MOSSOS:

11 Q Mr. Segneri, my name is Elias Mossos. I
12 represent the Attorney General's office. And while
13 we have this handy, ICC Staff Cross-Exhibit 4, if I
14 could ask you some questions from this. Just picking
15 up on some of the issues Mr. Fosco raised.

16 Can I direct your attention to outage
17 I.D. 689056 and 059 that occurred at 11:20 on August
18 23rd, '07.

19 A Can you tell me what page.

20 Q They appear on --

21 A 689059?

22 Q Yes, and 056.

1 A Okay.

2 Q And, in your opinion, are these 3 separate
3 interruptions -- I guess 2 interruptions are
4 associated with 689059, and one is associated with
5 689056, are the three of these a single continuous
6 interruption?

7 A So let's take them one at a time. 689056,
8 if you look about the middle of page, the feeder
9 line, that's J, Joliet, 77484, that indicates that's
10 on an entirely different feeder than the 689059. So
11 that certainly would be a separate outage.

12 Q How about the two outages associated with
13 689059, did they start at the same time?

14 A Right. So since they have the same I.D.
15 number and they're on the same circuit, it looks like
16 that's the example of one of those partial
17 restorations where we did a restoration and returned
18 some of the customers back at noon and the
19 remainder -- or 12:45 and the remainder of the
20 customers at 1310.

21 Q And, in your opinion, were all of these
22 customers associated with these two outages

1 constitute a single continuous interruption?

2 A Correct.

3 Q And your testimony talks about the effects

4 of a storm that occurred on August 23rd through the

5 24th of 2007; is that correct?

6 A Yes.

7 Q And what time did the storm end on

8 August 24th?

9 A The actual weather -- I don't know the

10 exact time.

11 Q Roughly?

12 A I think it was mid-morning, if I recall.

13 Q Were there separate storm systems or just

14 one storm system that passed through the area?

15 A Many separate storm systems.

16 Q And about 639,000 customers suffered an

17 interruption due to this storm; is that correct?

18 A Yes.

19 Q And about 49,907 customers lost power for

20 more than 4 hours?

21 A I believe that's correct. The number

22 sounds right.

1 Q And on Page 3 of your rebuttal I believe
2 you state that the interruptions were a direct result
3 of the scope and severity of the August 23rd storm
4 system; is that correct?

5 A I believe that's what I said here on Page
6 3.

7 I'm sorry. I don't know where you
8 quoted --

9 Q I'm not sure what line.

10 A It's sounds right.

11 Q And it's true that the last outage that
12 ComEd reported started on August 28th at about
13 8:49 p.m.; is that correct?

14 A That sounds correct.

15 Q So the outages that ComEd says resulted
16 from the storm occurred several days after the storm
17 system left the area; is that right?

18 A I guess by your question there were some
19 outages that might not have been associated directly
20 with those severe weather fronts, if that's what
21 you're asking --

22 Q Yes.

1 A -- they were within the whole restoration
2 period.

3 Q Yes. Is it your contention, then, that
4 these outages that weren't caused by a specific
5 weather event were still unpredictable weather
6 damage?

7 A It very well could have been. That's not
8 uncommon at all.

9 Q I took your testimony to mean that each and
10 every outage in this Attachment A was due to
11 unpredictable weather damage and the company is
12 seeking a waiver for everyone; is that accurate?

13 A I'm not sure I would say each and every
14 one, but certainly the 90 percent plus -- you could
15 just look at them and what was the cause and when did
16 it happen and draw the conclusion that they were all
17 due to the weather event.

18 Q And you stated in response to Mr. Fosco
19 that you determined an interruption was caused by the
20 weather because of the location time and causes of
21 the damage; is that correct?

22 A Yes.

1 Q Is there anything in the testimony you have
2 filed under this case that establishes the location
3 time and causes of the interruptions for each of
4 these outages in Attachment A?

5 A Well, the Attachment A --

6 Q The location and time. I'm sorry.

7 A It's certainly this. The background data
8 that this set came from, the cause is a field, as we
9 talked about before -- the causes is a field in that
10 data, yes.

11 Q So we can't really -- was that tendered to
12 the Attorney General's office or the other parties in
13 this case, response to any data request?

14 MR. RIPPIE: It wasn't requested.

15 THE WITNESS: So the individual cause for the
16 individual outage?

17 MR. RIPPIE: Are you asking whether a data set
18 was tendered to you that contained those columns?
19 The answer is one wasn't requested.

20 MR. MOSSO: I would request it on the work
21 papers.

22 MR. RIPPIE: That wasn't his work paper.

1 BY MR. MOSSOS:

2 Q Did you rely on this data stat,
3 Mr. Segneri, to form your opinion that's in your
4 testimony that says -- these allegations are
5 unpreventable weather damage -- would cause
6 unpreventable weather damage?

7 A A lot of the conclusions I drew from there
8 would have been from our summary of all of the
9 outages -- what outage were from what causes. So I
10 had the summary data.

11 Q So we can't really know by looking at your
12 testimony, can we, whether or not an outage was
13 caused by leaking oil, as in Mr. Fosco's example, or
14 by the weather?

15 A We can know from my testimony -- I'm going
16 to refer you to the outage storm page, which would be
17 Page 24 or 49 of Exhibit 1.02. It lists all of the
18 causes. So if that supposed leaking transformer
19 occurred, the number would have been so low all of
20 the predominant causes and greater than 99 percent of
21 the cause interruptions are listed on that slide. So
22 it tells you what the calls were, and they were

1 likely wind, broken limb, tree. Those are the
2 majority of the outages.

3 Q There's a line here that says "unknown".
4 Could you tell us what "unknown" means.

5 A "Unknown" would be unknown. In other
6 words, the responding person couldn't determine --
7 they see a fuse blown or a wire down, but they didn't
8 see evidence of a tree, they didn't see evidence of a
9 wire. So they just say "unknown". There was no
10 specific evidence.

11 Q Looking at this ICC Cross-Exhibit 4, what
12 does as-built feeder line refer to exactly?

13 A I'm not sure where you're referring to.

14 Q It's in the top of every page, 5th column?

15 A That column is the main line, the main
16 feeder that serves those customers, the main trunk
17 line as we described it before.

18 Q And "print count," is that the number of
19 customers who suffered an outage?

20 A Yes.

21 Q Is there anything in the documents you have
22 submitted as part of your testimony which would

1 establish what weather event, if any existed, at any
2 point in time?

3 A I'm not sure I understand the question.

4 Q So I let's take, for example -- I extracted
5 these from ICC Staff Exhibit 4 just to help us follow
6 along. So you first said it shows two outages in
7 Morris, Illinois. We don't know, do we, what weather
8 event existed in Morris, Illinois, and we don't know
9 that based on anything that's in your testimony, do
10 we?

11 A We know a series of significant storm
12 fronts came through the entire ComEd territory during
13 that time frame. So did we have any storm measuring
14 equipment right in Morris Illinois? No. But we know
15 from radar and from the outage patterns that we had
16 that there were storm conditions through the whole
17 territory, and this was the start time of 8:26.

18 Is that what you're saying?

19 Q Correct. These were several days after the
20 storm front passed?

21 A Yes.

22 Q These two outages, outage I.D. 691853 and

1 692453, you can't attribute these to any specific
2 weather event, can you?

3 A Not necessarily. So I would say those 31
4 customers out of 650,000 probably can't draw a direct
5 tie to the storm, correct.

6 Q Let me direct your attention to Page 10 of
7 your rebuttal testimony. You generally state that
8 winds peaked at more than a hundred miles per hour.

9 Does that sound about right?

10 A Repeat the question, please.

11 Q In your testimony at any point did you say
12 that winds peaked at more than 100 miles per hour?

13 A Yes.

14 Q And do you know how long these 100 miles
15 per hour winds last?

16 A Yes. They were gusts. I don't know the
17 exact duration of the different bursts.

18 Q But they were not sustained winds for a
19 long period of time?

20 A No.

21 Q And were all the -- ComEd has 3 million
22 customers?

1 A 3.6 million, yes.

2 Q And did each of those customers -- were all
3 of these customers affected by alleged
4 100-miles-per-hour wind gusts?

5 A No, I would not expect that there was
6 100 miles per hour at every point in the system.

7 Q Can you tell us which of the customers or
8 which of the outages listed in ICC Staff
9 Cross-Exhibit 4 were caused by these 100 miles an
10 hour wind gusts?

11 A Without going through each individual, I
12 know the primary -- the most significant weather path
13 was from West Chicago through the Lombard area to the
14 north shore. So those customers, which would be in
15 our northern. Considered in our northern
16 territory -- so it would be towns like Lombard, Villa
17 Park, and then towards the lake, Deerfield, Golf
18 Mill -- those would be the towns that were the most
19 affected by those highest winds?

20 Q And how do you know that?

21 A I saw the tornado front, and we have radar
22 readings in our dispatch center where it would

1 actually show the different wind speeds. I was in
2 the storm center at the time those storms came
3 through.

4 Q I would like to show you AG Cross-Exhibits
5 3 and 4. AG Cross-Exhibit 3 is the company's
6 response to AG Data Request 1.03. And AG
7 Cross-Exhibit 4 is the company's response to Data
8 Request 2.01.

9 Isn't it true that AG Cross-Exhibit 3
10 reflects that restoration manpower has been dwindling
11 for ComEd over the course of the past several years?

12 A I'd have to look at what evidence -- this
13 indicates there is less overhead employees than there
14 were in 1998.

15 Q And AG Cross-Exhibit 4, does that reflect
16 the underground components that were damaged as a
17 result of the August 23rd storm front?

18 A It looks like -- yes, this looks like it's
19 talking about that.

20 Q And are all of these items listed on here
21 typically underground items; for instance, fuse
22 table, substation breakers? Are all of those found

1 underground?

2 A The material involved is the item that's
3 found underground. The fuse and breakers, those are
4 the devices that -- you know, that are used to switch
5 those materials. So a fuse and a breaker is not
6 underground, but the cable and the cable termination
7 is underground.

8 Q And does each of this line reflect an
9 outage due to the failure of an underground component
10 or material?

11 A Yes.

12 Q And do you know or would you accept,
13 subject to check, that there were 341 separate outage
14 lines listed in this attachment?

15 A I would accept that.

16 MR. RIPPIE: Do you mean outages or lines.

17 MR. MOSSOS: Lines. Each line reflects an
18 outage.

19 MR. RIPPIE: Do you mean outage codes or lines?

20 BY MR. MOSSOS:

21 Q What's reflected on each line?

22 A Not recalling exactly where this data came

1 from, this could very well be, as we saw in Appendix
2 A, a restoration sequence. So, in other words, you
3 might have 2 or 3 of these lines with Title 1 outage.
4 That may be the situation.

5 Q But would you accept, subject to check,
6 there were 34,770 customers who suffered an
7 interruption because of failure of an underground
8 material?

9 A Subject to check, yes, that sounds about
10 right.

11 Q And is it your testimony that the alleged
12 intense feelings that you discuss in your testimony
13 in which you discuss a tornado, that they cause
14 unpreventable damage to underground lines?

15 A I wouldn't attribute wind or tornado to the
16 underground, but the 80,000 strokes of lightning I
17 would attribute.

18 Q And are any of these attributed to rain or
19 moisture, or just --

20 A They could be, but the predominant issues
21 during the August 23, 24th time frame was lightning.

22 Q But we don't know looking at this document

1 or your testimony what was the cause of each outage,
2 do we?

3 A No other than there was an underground
4 failure.

5 Q On the sheet I handed out that was not
6 introduced in the record, the compilation from
7 Attachment A, the second from the last data set shows
8 outages in Wheeling due to the failure of C-1710.

9 Do you see that?

10 A Yes.

11 MR. RIPPIE: It mischaracterizes the
12 compilation. I object to the question. It's a
13 temporary switching, it's not an failure.

14 BY MR. MOSSOS:

15 Q Did customers suffer an outage in Wheeling,
16 which is listed as outage I.D. 693147?

17 A Yes, those were -- when we added that up
18 somewhere around 148 customers would have been out
19 with that outage I.D., yes.

20 Q And what was this outage caused by?

21 A It looks like the equipment involved was
22 cable.

1 Q And the first outage identified on this
2 list that lasted for about 20 hours?

3 A Yes.

4 Q And do we know whether or not C-1710 is an
5 underground component?

6 A That feeder -- that's a designation for a
7 feeder. It probably has overhead sections and
8 underground sections. The fact that there was cable
9 involved tells me that there is a portion of the
10 feeder that's underground.

11 Q And do we know whether or not the failure
12 occurred above ground or underground?

13 A From this it appears it was underground --
14 table.

15 MR. RIPPIE: Can the witness have an
16 opportunity to look at all the lines that reference
17 that same interruption code.

18 MR. MOSSOS: Sure.

19 MR. RIPPIE: Would that help you, potentially?

20 THE WITNESS: It would.

21 MR. RIPPIE: I'll try a search.

22 BY MR. MOSSOS:

1 Q If you look to Page 4 of AG Cross-Exhibit 4
2 listing the underground components...?
3 A Okay.
4 Q Isn't it true that about 8 or 9 lines down
5 feeder C-1710 appears?
6 A Yes. I see it.
7 Q It's still your contention then that the
8 outage I.D. 693147 in Wheeling was caused due to an
9 underground component?
10 A Yes, it looks like it is.
11 Q And do we know exactly what weather event
12 in Wheeling caused this failure?
13 A All I know is that the date it occurred was
14 underground failure. I don't know that I can
15 directly tie those 148 customers to any particular
16 weather event.
17 Q Do you know whether or not there was
18 lightning in Wheeling on August 26th?
19 A On August 26th? I don't have that data in
20 front of me. I don't know.
21 Q So these customers listed right here in
22 Wheeling, it's true they did not lose power on the

1 23rd or 24, is that correct, during the storm system?

2 A That's correct.

3 Q And they didn't lose power on 25th either?

4 A That's correct -- well, from this, I don't

5 know if they had a previous outage. It doesn't

6 indicate that they did.

7 Q Is it your contention that they suffered

8 unpreventable weather or these outages were caused by

9 unpreventable weather damage?

10 A It could have been.

11 Q If I could refer your attention to Page 14

12 of your rebuttal testimony...?

13 A Page 14. Okay.

14 Q In there you define an interruption, and

15 you say that in the industry it means a discrete

16 event caused by the failure of a piece of equipment

17 or directly connected groups of equipment that affect

18 a discrete set of customers and has a specific start

19 time and duration to full restoration.

20 Can you please tell me what source you

21 relied on for this statement.

22 A Tell me the line number, please.

1 THE WITNESS: That would be both the 411
2 definition of interruption and the definition that we
3 use to define our outage events.

4 Q In your opinion -- and I think you might
5 have answered this before -- if customers have an
6 outage due to the same equipment failure and the same
7 start time and if the end times are different, in
8 your opinion, that's the same continuous
9 interruption; is that correct?

10 A Yes, in that scenario where I would have
11 one event and then multiple restorations due to that
12 event, yes, that would still be tied to one event.

13 Q And if I can point your attention to Page 3
14 of your rebuttal testimony. I believe it states that
15 the weather damage the system experienced was
16 unpreventable regardless of the age of the system.

17 Are you saying that even if a piece of
18 equipment was aged past its useful life span it would
19 not matter in this case?

20 A What I'm saying is a tree or lightning that
21 hits our facility and causes it to fail is
22 independent of how old that piece of equipment is.

1 That's what I'm saying.

2 Q How often does ComEd inspect its wood poles
3 and/or crossarms?

4 A We do a circuit patrol every 4 years. So
5 that's where it's visually inspected, every 4 years.

6 Q And in your rebuttal testimony you state
7 that the age of ComEd's facilities did not cause or
8 contribute the damage to the system or to the
9 interruptions. That's on Lines 56 through 58.

10 A Yes.

11 Q And you go on to conclude that the
12 interruption was due to the weather.

13 So is it your testimony that not one
14 of the outages listed in this Attachment A were
15 caused by the age of ComEd's system?

16 A There's nothing in there that would
17 indicate it was age. It's only the weather event
18 that would indicate there was an outage caused.

19 Q There's nothing in there to actually show
20 an outage due to weather, is there?

21 A There is a lot of indication of outage due
22 to weather: a tree, lightning.

1 Q Can a tree fall on the line when there's no
2 adverse weather event?

3 A Sure, it can. Yes.

4 Q Did you examine any of the equipment that
5 was damaged or destroyed as part of the storm?

6 A Me personally?

7 Q Or the people under your direction?

8 A The people in the company, certainly they
9 were on site and saw the equipment at that time.

10 Q And did anyone conduct an analysis that
11 collected the dates that the damaged equipment was
12 first put into service?

13 A Not that I'm aware of. I don't believe we
14 did any detailed analysis like that.

15 Q Do crossarms last longer than wooden poles?

16 A They're both pieces of wood. I mean, I
17 don't know -- in general, I think our system average
18 age is less for crossarms than poles, but that isn't
19 necessarily an indication of their degradation. You
20 think a crossarm would get replaced as new customers
21 are added or new wires are put up. So you wouldn't
22 replace a pole, but you would replace a crossarm. So

1 the fact that our crossarms are on average younger,
2 it has nothing to do with their deterioration or
3 ability to change. It's that they're changed more
4 often because you add a new transformer or you double
5 up a circuit.

6 And you wouldn't go and change the
7 pole, but you wouldn't change the crossarm. So I
8 wouldn't jump to a conclusion that the crossarms are
9 in worse condition than the pole or last less than
10 the poles. I don't think that's a valid conclusion.

11 Q Thank you.

12 And I think, finally, if I can direct
13 your attention to Page 22 of ComEd's Exhibit 1.02,
14 can you tell me who prepared this graph that appears
15 in this picture.

16 A Do you have a better copy? The particular
17 copy I have is all black. I'm familiar with that
18 picture.

19 I don't exactly who did that. That
20 would have been our engineering staff who go
21 information through NOWA. This might have come
22 directly either from the NOWA Web site or we

1 transposed the information.

2 Q And do we know what date this is supposed
3 to reflect?

4 A It would have been August 23rd, I believe.

5 Q And do we know what time is reflected by
6 this?

7 A I don't know the exact time, but I know the
8 tornado came through sometime mid afternoon.

9 Q And do we know what time the tornado
10 touched down?

11 A It would have been about the same time.
12 2:00 in the afternoon, 3:00 in the afternoon, in that
13 time frame.

14 MR. MOSSOS: Thank you very much. I have no
15 further questions.

16 JUDGE DOLAN: Thank you. Redirect?

17 MR. RIPPIE: If we could have about 5 minutes.

18 JUDGE DOLAN: Certainly.

19 REDIRECT EXAMINATION

20 BY

21 MR. RIPPIE:

22 Q Mr. Segneri, do you recall

1 cross-examination by Mr. Fosco concerning the
2 definition of interruptions contained in Part 411 of
3 the Illinois Commerce Commission's rules?

4 A Yes.

5 Q In the absence of that have definition,
6 pretend Part 411 didn't exist -- would Commonwealth
7 Edison define interruption any differently?

8 A No. That definition would be something as
9 normal utility application, normal utility use of
10 defining an interruption.

11 Q And why is that the normal utility
12 definition of an interruption?

13 A It's the accepted practice. It's the
14 logical approach to an event that happened here. It
15 was a discrete number of customers, that they were
16 interconnected. And some event that happened on a
17 separate portion of the system that was not
18 interconnected, it wouldn't be logical to lump those.
19 So it would just be the practical interpretation or
20 application of interruption.

21 Q Let me ask you a few technical questions
22 about the spreadsheet that is both attached to the

1 petition and was provided by Staff in an updated
2 form.

3 A Appendix A?

4 Q Appendix A.

5 A Okay.

6 Q To be clear, in ComEd's view does each row
7 of that chart represent an interruption, or does each
8 interruption code represent an interruption even if
9 there are multiple rows associated with that code?

10 A If I understand your question, each
11 interruption code or outage I.D. represents an
12 interruption. So we said there was 4200-some
13 interruptions. There's way more than 4200 lines in
14 this spreadsheet.

15 So did that answer your question?

16 Q So ComEd has not counted an interruption
17 that affected customers in 5 municipalities as 5
18 separate interruptions?

19 A No.

20 Q Now, are there any cause codes
21 represent- -- any causes represented in Appendix A
22 that are non-storm causes such as vandalism,

1 third-party dig in, tampering, or the like?

2 A I don't believe they are. I do not recall
3 seeing anything like that.

4 Q Now, you testified concerning high voltage
5 lines feeding substations, the failure of which could
6 cause an interruption affecting more than 30,000
7 customers.

8 Do you recall that testimony?

9 A Yes.

10 Q I'm going to ask you technically with an
11 eye towards the formal functionalization of those
12 facilities, could such lines be functionalized as
13 either transmission or distribution?

14 A Yes. You're referring to the FERC, the
15 Federal --

16 Q FERC jurisdictional boundaries?

17 A A high voltage 138,000 volt line could be
18 designated as a distribution high voltage line or a
19 transmission, yes.

20 Q And if it was a radio line, the failure of
21 which would be likely to cause a substation to be
22 interrupted, that is not part of the loop, would it

1 be more likely to be transmission or would it be more
2 likely to be distribution?

3 A Distribution.

4 Q Mr. Mossos asked you some questions about
5 the detailed information displayed on Attachment A.
6 In your opinion, is the information expressed in
7 Attachment A and in your testimony and in the work
8 papers that you reviewed sufficient to reach a
9 conclusion within a reasonable degree of engineering
10 certainty as to the cause of the outages for which
11 ComEd seeks a waiver?

12 A Pretty overwhelmingly with the large number
13 much events and the relatively few number of causes
14 that, as we saw, were 90 percent of the customer
15 interruptions were due to lightning, wind, trees,
16 which would all be related to the storm. So, yes, I
17 will say the evidence is pretty overwhelmingly
18 consisted of the storm.

19 Q Now, we focused -- or he focused with you
20 at some length on 3 rows affecting some customers in
21 Wheeling due to the outage of a cable.

22 Can you explain how an underground

1 cable failure can occur 2 or 3 days after a storm
2 event passes through an area?

3 A How could it happen 2 or 3 days after the
4 storm event and still be that we claim it's
5 attributed to the storm?

6 Q Yes. You asked the question better than I
7 did.

8 A Well, actually in a couple different ways.
9 After a storm front comes through -- you've got heavy
10 wind and lightning -- just because I don't have an
11 outage on a piece of equipment that doesn't mean I
12 don't have a dangling tree or a broken crossarm that
13 has not caused an outage or an interruption, but it's
14 an adverse situation. Just like lightning can hit a
15 piece of cable and it might not damage it right at
16 that instant enough to cause an outage, but it's
17 breached the cable, it's caused maybe a hole in it,
18 and it's Okay. But then as moisture gets into the
19 cable after a couple of days, then it fails.

20 So with the number of underground
21 failures that we had -- and some of them happened
22 during the storm window and some of them a couple

1 days after the storm window -- it's absolutely
2 reasonable and consistent with past experience that
3 those failures are attributed to the lightning event
4 that we had.

5 I mean, a normal storm in ComEd where
6 we -- which would be severe, a hundred thousand
7 customers -- we might have 12 or is 13,000 strokes of
8 lightning. This had 80,000 strokes of lightning. So
9 the residual damage is going to be there. So that's
10 not at all unexpected that we would have those
11 outages even a couple or 3 days after the fact.

12 MR. RIPPPIE: That's all I have. Thank you.

13 JUDGE DOLAN: Any recross?

14 MR. FOSCO: Not from Staff.

15 MR. MOSSOS: A couple.

16 RECROSS-EXAMINATION

17 BY

18 MR. MOSSOS:

19 Q In the last question Mr. Rippie asked
20 you -- you talked about residual damage and you
21 brought up a dangling tree and a crossarm that could
22 cause an outage.

1 But would these be -- would these
2 cause an outage to an underground component several
3 days later?

4 A Sure. What does lightning do to a cable?
5 The lightning gets on the cable and then it has to
6 leave the cable and go to the ground, and it causes a
7 hole in the insulation of the cable. That may or may
8 not cause a failure right at that time, so you've got
9 a hole. Then over a couple days rain or other water
10 moisture gets in there, and then it fails.

11 So we get maybe 30 underground
12 failures a day on our big system. With this large
13 number corresponding right after the lightning event,
14 you don't have to do a lot of calculations, of
15 course, on all of those underground failures to the
16 storm.

17 Does that answer your question?

18 Q I believe.

19 You say you get 30 underground
20 failures under normal conditions. What would these
21 be caused by, if not lightning?

22 A Previous lighting, other dig-ins, multiple

1 causes.

2 MR. MOSSOS: No further questions.

3 JUDGE DOLAN: Are you going to put --

4 MR. MOSSOS: Yes, your Honor. AG

5 Cross-Exhibits 3 and 4 into the record.

6 JUDGE DOLAN: AG Cross-Exhibits 3 and 4 will be

7 admitted into the record.

8 (Whereupon, AG Cross-Exhibits

9 No. 3 and 4 were admitted into

10 evidence.)

11 JUDGE DOLAN: Okay. That's it then. Okay.

12 MR. RIPPIE: That concludes the -- I believe

13 certainly the company's evidence. I believe it

14 concludes everybody's evidence.

15 Let's go off the record.

16 (Whereupon, a discussion was had

17 off the record.)

18 JUDGE DOLAN: A discussion was held off the

19 record concerning the motion to bifurcate the

20 hearings, and I am going to grant that motion to

21 bifurcate. So the parties are going to provide

22 briefs addressing the waiver issue only.

1 And by agreement of the parties,
2 Commonwealth Edison will file their initial brief on
3 or before September 5th, 2008. Any responses to
4 those -- to that brief will be due on September 19th,
5 2008 and any replies to the responses will be due on
6 September 26th, 2008.

7 And with that, I will mark this record
8 heard and taken.

9 HEARD AND TAKEN.

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